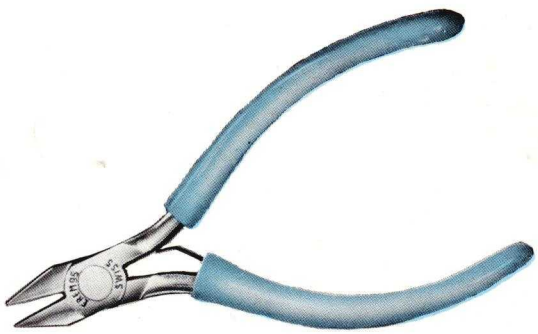
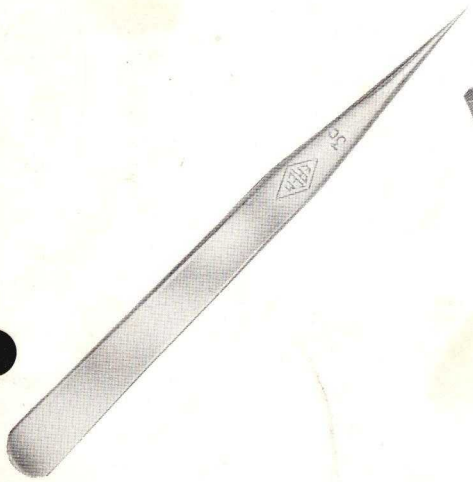
PROFESSIONAL QUALITY HAND TOOLS FOR ALL INDUSTRIES

CATALOG NO. 70 HT



HUNTER TOOLS



FOR INDUSTRIAL CUTTING TOOLS

A. J. ROD CO., INC.

5011 NAVIGATION - WA 3-4671

HOUSTON, TEXAS

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GUARANTEE: All Hunter Tool products are guaranteed to be free of defects in material and workmanship. Hunter tools are guaranteed to perform the work for which they are designed. Defective tools should be returned to the factory with transportation charges pre-paid. Tools will be replaced, repaired or credited at current prices. Special tools not listed in this catalog or price sheet, do not carry the regular guarantee, nor any tools that have been altered or ground from their original design.

Stock and Sales Offices in all principle cities, check your telephone directory, wire or write for office nearest you . . .

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TELEPHONE: 334-1503

CANADIAN OFFICE AND WAREHOUSE:
2 Tycos Drive, Toronto, Canada
TELEPHONE: 781-5231

FACTORIES: Santa Fe Springs, California — Geneva, Switzerland

HUNTER TOOLS

HUNTER INDUSTRIES *A Division of Hunter Industries*

Two Service Centers To Serve You

9851 ALBURTIS AVE., SANTA FE SPRINGS, CALIFORNIA 90670
PHONE (213) 692-7281 - 723-4659

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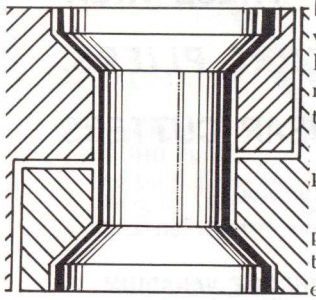
PHONE (215) ESSEX 9-4830 - 9-4760

Orders Shipped Same Day As Received

Hunter Pliers & Cutters with 'Space Age Precision ---Built to do a Job... Not to Meet a Price....

YES! HUNTER PLIERS AND CUTTERS COST MORE INITIALLY THAN ORDINARY TOOLS . . . BUT THEY WILL DO YOUR SPECIFIC JOB . . . WITH POSITIVE **RELIABILITY** OVER and OVER and OVER and OVER and OVER and OVER LONG AFTER THE LOW PRICE TOOL HAS HAD TO BE REPLACED..

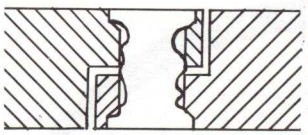
HUNTER 'JOINT' IS PRECISION MACHINED



HUNTER JOINT . . . Smooth action—no wobble, no over lapping blades. Long life and durability is assured thru Hunter's machined rivets used in all plier and cutter joints.

Note the rivet surfaces on Hunter pliers are perfect circles.

You can feel the smoothness of the precision machine rivets making full contact with the plier wall. Smooth action eliminates hand fatigue.



ORDINARY JOINT . . . The regular rivet used in mass produced pliers normally becomes deformed during riveting action . . . Note peaks and valleys between rivet and wall of joint. This will cause loose sloppy joints after extended use.

HUNTER CUTTERS ARE AVAILABLE IN CHROME VANADIUM STEEL!

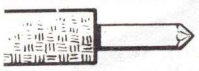
Development of Chrome Vanadium: Special Chrome Vanadium steel creates the most durable cutter ever manufactured . . . Actual 'in factory' test, proved Hunter Chrome Vanadium cutters last twice to three times longer than cutters made from regular steel . . . Blades tested for over 36,000 perfect cuts (.020 steel wire).

Top quality steel forgings: Fine Hunter quality begins with quality forgings. Basic material used are fine grain, high carbon steel or chrome vanadium alloy steel. Forgings are carefully machined then heat treated and hardened to the proper Rockwell using the best modern heat treating equipment. Because of this basic quality approach Hunter tools give long satisfactory service life on electronic assembly stations.

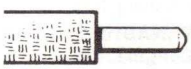
Hand fitting and finishing: Hunter pliers are hand fitted and finished to make tools that are a joy to use and a pleasure to look at. All are individually inspected; each one opens and closes easily so operators have a minimum of hand fatigue; jaw of needle and chain nose pliers are always parallel and meet perfectly; cutting edges are precision honed to cut cleanly and accurately.

LEGEND ALL PLIERS AND CUTTERS

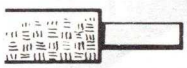
Regular Cutting Edge.



Semi-Flush Cut.



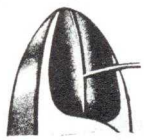
Full Flush Maximum Cut.



Plier Tips are Important

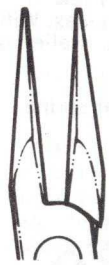
The tips of all Hunter pliers are hand ground and matched by experienced craftsmen to insure a precise match of the points. *Smooth Tips* must pick up and hold without damage objects smaller than fine hair. *Serrated Tips* must hold firmly with only a light pressure on the plier handles. *Cutter Tips* must match precisely – cut down to the very tip, will snip wires even when flush mounted against circuit boards. Cutting edges are available in regular, semi-flush or full flush cut. See illustrations at left for examples. The exact cutting characteristics of each plier is given in the description accompanying the individual pliers.

ALL PLIERS ARE FULL POLISH WITH CUSHION GRIP HANDLES NO EXTRA COST.



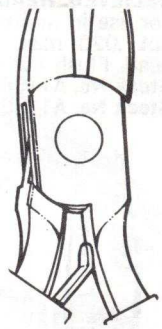
Add "V" to code number when safety cut is desired. Vinylite in jaws of cutter to catch ends of snipped wire. (Available on all cutters)

Radius Edges



Wiring pliers are supplied in either radius or beveled edges.

Radius ground pliers meet NASA requirements.



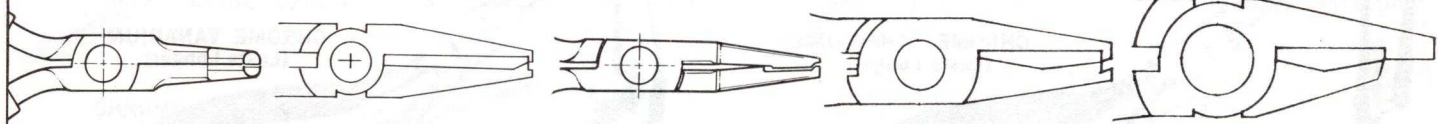
Add "L" to code number when leaf spring is desired. (Available on all models)

Hunter's Special Products Department Designs and Builds Special Tools to Solve Special Manufacturing and Assembly Problems

Hunter can help you solve your special tool problems. Hunter has at your service: (1) A Complete Tool Research and Design Department with a wide knowledge and experience that ranges from work in plastics to work in obdurate tool steels; (2) A Complete Experimental Machine Shop staffed with expert research machinists; (3) A Special Custom Production Shop, geared to produce limited quantities of custom-made tools; (4) Modern Precision Manufacturing Facilities able to build quantities of special tools if needed. Hunter has done much special work in solving industrial tool problems. We have worked successfully with Wood, Ivory, Acrylic Plastics, Tenite, Nylon, Teflon, Brass, Beryllium, Titanium, Stainless Steel, Anti-acid Steel, Chrome-vanadium and other special analysis steels. Let Hunter help you with your problem.

Send for our Special Products Brochure.

EXAMPLES OF SPECIAL TOOLS DESIGNED AND BUILT BY HUNTER AND NOW WORKING IN THE ELECTRONICS INDUSTRY



Connector Tightening Tool. Used to connect Microdot miniature connectors. This special plier was designed to be similar to a spanner wrench and was a successful solution to a problem. Spanner pliers can be custom made to fit your connector tightening problem.

Consult Hunter if you have a connecting problem. We have worked with many electronic companies and have been able to make important contributions to the solution of problems.

Anti-Shock Plier. Extensive tests at Southern California Aerospace Industries indicated that as high as 30gs of mechanical shock can be thrown on a delicate component or joint by the wedging action inherent in the cutting action of a standard diagonal plier. The plier shown above was developed by Hunter to reduce this shock to a minimum. The problem was solved by using a shearing action plus a cradle holding action. If you have a problem of this character let us aid you in its solution.

Transistor Stand-Off Forming Plier. This special crimping tool was designed by Hunter to crimp the leads of a transistor so it would stand off of a printed circuit board. The solution shown was very successful and solved a problem for this manufacturer. We have developed six different versions of this tool, each designed to solve a similar problem with transistors and consequent standoffs. If you work with transistors and circuit boards it will pay you to consult with us.

Cutter-Crimper Tool. This tool was developed for printed circuit board work. It uses a shear action to cut off the extended component lead to the wanted length and then bends the lead up at an angle – this angle can be as great as 45 degrees with the board if wanted. Handling leads in this manner prevents the lead from dropping back through the hole and allows finish bending and soldering operations. A tool such as this can give you substantial savings in labor if you assemble circuit boards.

Shear Cutting Plier. The above plier is a transverse end cutting plier with a shear action instead of the usual diagonal action. The shear action has two advantages: (1) It makes a perfect right circular cylinder cut which is very important in welded module work; and (2) The desired lead length can be obtained. The lead length can be adjusted, if wanted, by grinding the length of the shear. Thus all work will come out in a uniform manner and to specification. Write us for recommendations.

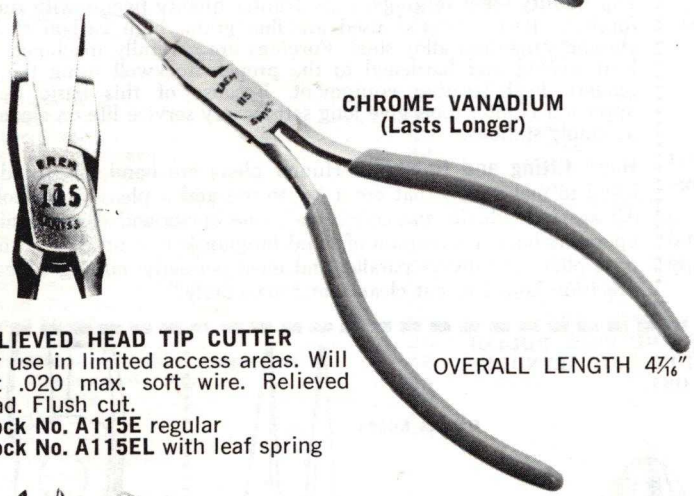
Hunter's Chrome Vanadium Mini-Miniature Cutters

FOR MINIATURIZATION IN ELECTRONIC CIRCUITRY

THE CHALLENGE HAS BEEN MET IN THE MINIATURIZATION OF ELECTRONIC CIRCUITRY BY THE DEVELOPMENT OF THESE HIGH QUALITY MINIATURE PLIERS, CUTTERS AND SHEAR CUTTERS

MINI TRANSVERSE ANVIL CUTTER
Used for horizontal cutting of .020 soft wire. One cutting blade.
Stock No. A114E regular
Stock No. A114EL with leaf spring

OVERALL LENGTH 4½"



RELIEVED HEAD TIP CUTTER
For use in limited access areas. Will cut .020 max. soft wire. Relieved head. Flush cut.
Stock No. A115E regular
Stock No. A115EL with leaf spring

OVERALL LENGTH 4 7/16"

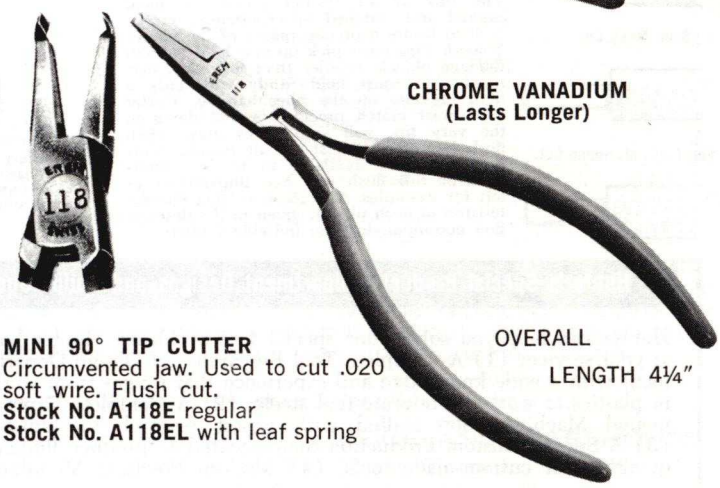
All pliers cushion gripped, full polish at no extra charge.

OFFSET RELIEVED JAW TIP CUTTER
For cutting .020 max. soft wire. Relieved jaws for dense area cutting. Flush cut.
Stock No. A116E regular
Stock No. A116EL with leaf spring

OVERALL LENGTH 4 5/16"

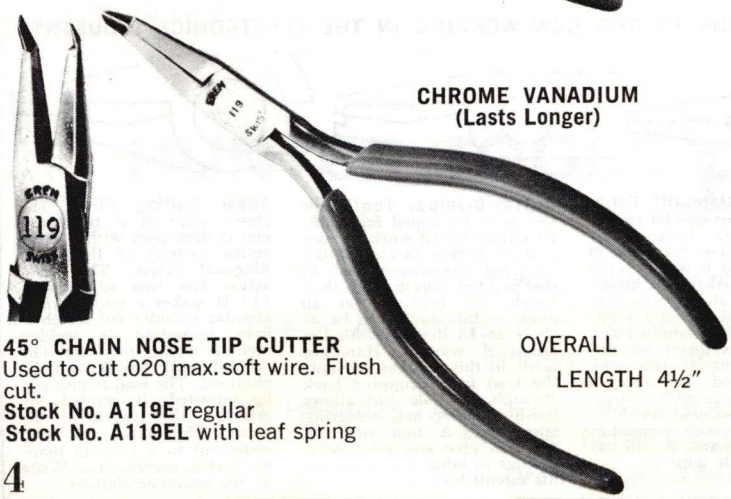
MINI 45° TIP CUTTER
Will cut .020 maximum soft wire. Relieved jaw. Flush cut.
Stock No. A117E regular
Stock No. A117EL with leaf spring

OVERALL LENGTH 4 3/8"



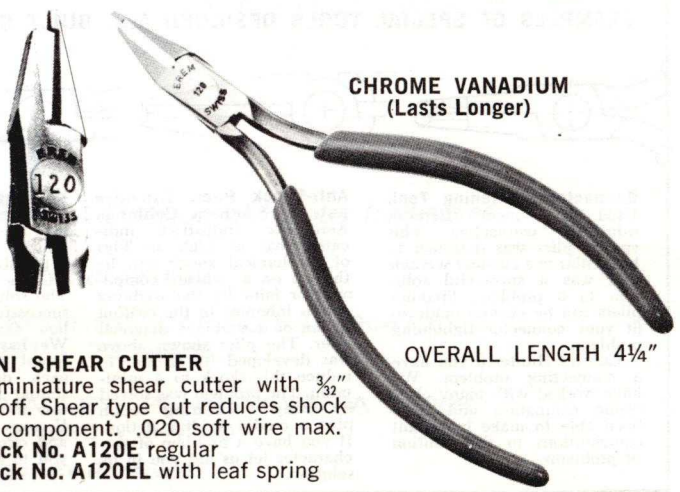
MINI 90° TIP CUTTER
Circumvented jaw. Used to cut .020 soft wire. Flush cut.
Stock No. A118E regular
Stock No. A118EL with leaf spring

OVERALL LENGTH 4¼"



45° CHAIN NOSE TIP CUTTER
Used to cut .020 max. soft wire. Flush cut.
Stock No. A119E regular
Stock No. A119EL with leaf spring

OVERALL LENGTH 4½"



MINI SHEAR CUTTER
A miniature shear cutter with 3/32" cutoff. Shear type cut reduces shock on component. .020 soft wire max.
Stock No. A120E regular
Stock No. A120EL with leaf spring

OVERALL LENGTH 4¼"

Hunter's Mini-Miniature Pliers

FOR MINIATURIZATION IN ELECTRONIC CIRCUITRY

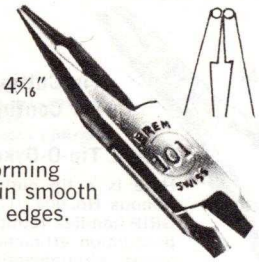
All pliers cushion gripped, full polish at no extra charge.

OVERALL LENGTH 4⅝"

MINI ROUND NOSE PLIER

Ideal for wire forming and coiling. Satin smooth jaws and radius edges.

Stock No. A101



OVERALL LENGTH 4⅞"

MINI ROUND NOSE PLIER

One small round tip and one large. For wire forming.

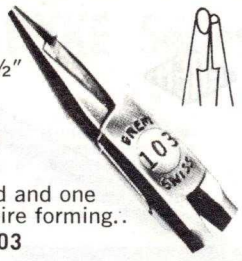
Stock No. A102

OVERALL LENGTH 4½"

MINI ROUND OVAL PLIER

One tip round and one tip oval for wire forming.

Stock No. A103

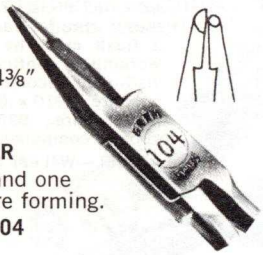


OVERALL LENGTH 4⅜"

MINI FLAT ROUND PLIER

One tip flat and one round, for wire forming.

Stock No. A104

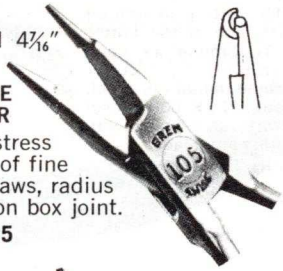


OVERALL LENGTH 4⅞"

MINI CONCAVE CONVEX PLIER

Excellent for stress relief forming of fine wire. Smooth jaws, radius edges. Precision box joint.

Stock No. A105

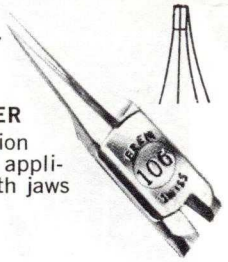


OVERALL LENGTH 4¼"

MINI FLAT NEEDLE NOSE PLIER

Excellent for precision miniature assembly applications. Satin smooth jaws and radius edges.

Stock No. A106

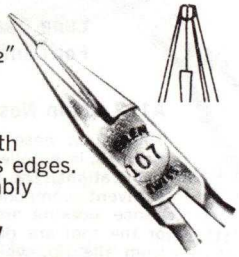


OVERALL LENGTH 4½"

MINI FLAT NOSE PLIER

Flat tips, smooth jaws and radius edges. Ideal for assembly applications.

Stock No. A107



OVERALL LENGTH 4½"

MINI FORMING PLIER

Throat is flat, nose is round, for wire forming. Precision box joint.

Stock No. 108

OVERALL LENGTH 4½"

OFFSET NEEDLE NOSE PLIER

Needle nose and offset head for those difficult assembly areas.

Stock No. A109

OVERALL LENGTH 4½"

OFFSET ROUND NOSE PLIER

Satin smooth nose and jaws for no-mar wire forming.

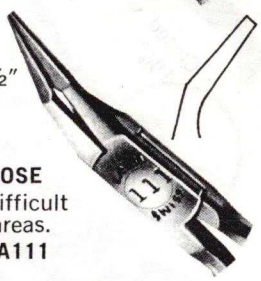
Stock No. A110

OVERALL LENGTH 4½"

MINI 45° NEEDLE NOSE

Ideal for difficult assembly areas.

Stock No. A111



4 New Designs in Electronic Cutters and Pliers

FOR HARD TO GET INTO AREAS

CHROME VANADIUM (Lasts Longer)

OVERALL LENGTH 5½"

OFFSET NEEDLE NOSE TIP CUTTER

A high precision cutter, made of tough CHROME VANADIUM STEEL. This cutter has a 45° offset angle to help get in those difficult cutting areas. Tip width is ⅛", overall length 5½", (FLUSH CUTTING). For use on 24 GA. wire and smaller.

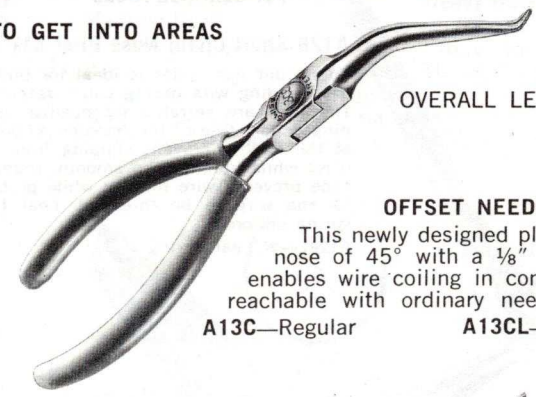
A13BE—Regular **A13BEL**—With leaf spring

OVERALL LENGTH 5¾"

OFFSET NEEDLE NOSE PLIER

This newly designed plier has an offset nose of 45° with a ⅛" tip. This design enables wire coiling in confined areas, unreachable with ordinary needle nose pliers.

A13C—Regular **A13CL**—With leaf spring



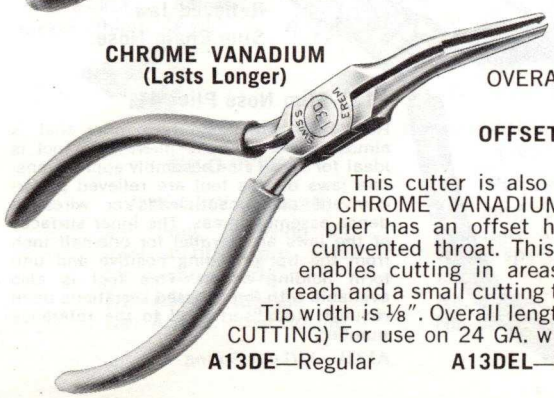
CHROME VANADIUM (Lasts Longer)

OVERALL LENGTH 5½"

OFFSET TRANSVERSE TIP CUTTER

This cutter is also made of tough CHROME VANADIUM STEEL. This plier has an offset head and a circumvented throat. This unique design enables cutting in areas where a long reach and a small cutting tip is necessary. Tip width is ⅛". Overall length 5½". (FLUSH CUTTING) For use on 24 GA. wire and smaller.

A13DE—Regular **A13DEL**—With leaf spring



OVERALL LENGTH 5¾"

BENT NEEDLE NOSE PLIER

A unique newly designed plier with a ¼" bent tip. The tip width is ⅛" to enable this plier to be used in confined areas. The thickness of the tip is 3/32". This feature also adds to the flexibility of this tool in difficult areas.

A14A—Regular **A14AL**—With leaf spring

Hunter's New E-Zee Grip Cutters and Pliers

NEWLY DESIGNED HANDLES TO REDUCE OPERATOR FATIGUE AND INCREASE PRODUCTION . . .

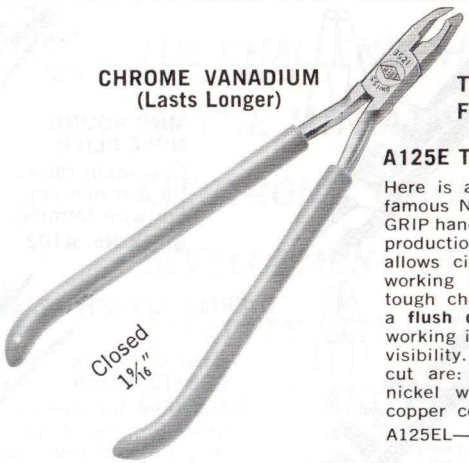
CHROME VANADIUM
(Lasts Longer)

Tip Cutting
For Confined Areas

A124E Flat Face Dyke 5¾"

This cutter is ideal for cutting in limited access areas. The flat face of the cutter allows a **flush cut.** The miniature head provides maximum visibility. This cutter is made of tough chrome vanadium steel. It may be used to cut .010 x .030 nickel ribbon, .020 nickel wire, .020 kovar wire and .040 copper component leads.

A124EL—W/Leaf Spring



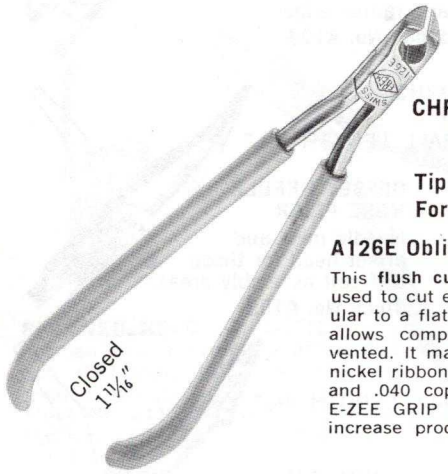
CHROME VANADIUM
(Lasts Longer)

Tip Cutting
For Confined Areas

A125E Tip-O-Dyke 6"

Here is a tip cutter patterned after our famous No. 90E "TIP-O-DYKE". The E-ZEE GRIP handles reduce fatigue and increase production efficiency. The relieved throat allows circumvention of leads in dense working areas. This cutter is made of tough chrome vanadium steel and gives a **flush cut.** The miniature head allows working in confined areas with maximum visibility. Recommended wire sizes to be cut are: .010 x .030 nickel ribbon, .020 nickel wire, .020 kovar wire and .040 copper component leads.

A125EL—W/Leaf Spring

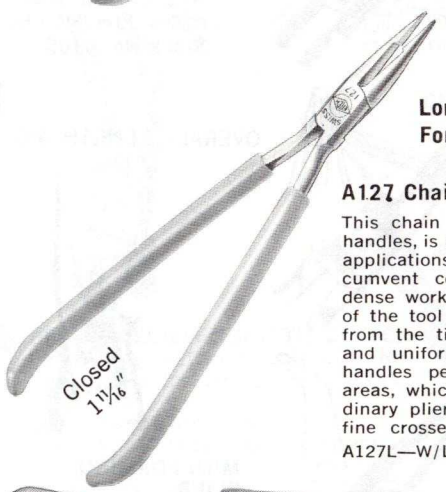


CHROME VANADIUM
(Lasts Longer)

Tip Cutting
For Confined Areas

A126E Oblique Nipper 5⅝"

This **flush cutting** oblique cutter may be used to cut either vertically or perpendicular to a flat surface. The relieved throat allows component leads to be circumvented. It may be used to cut .010 x .030 nickel ribbon, .020 nickel wire, .020 kovar and .040 copper component leads. New E-ZEE GRIP handles reduce fatigue and increase production.

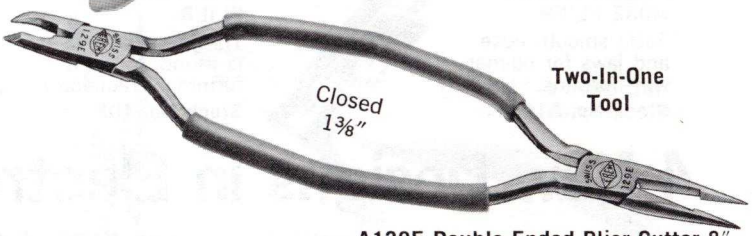


Long Reach
For Confined Areas

A127 Chain Nose Plier 6¼"

This chain nose plier, with E-ZEE GRIP handles, is excellent for general assembly applications. The jaws are relieved to circumvent component leads or wires in dense working areas. The inner surfaces of the tool are parallel for one-half inch from the tip, which provide for positive and uniform holding action. The long handles permit reaching into recessed areas, which cannot be reached with ordinary pliers. This tool is available with fine crossed serrations upon request.

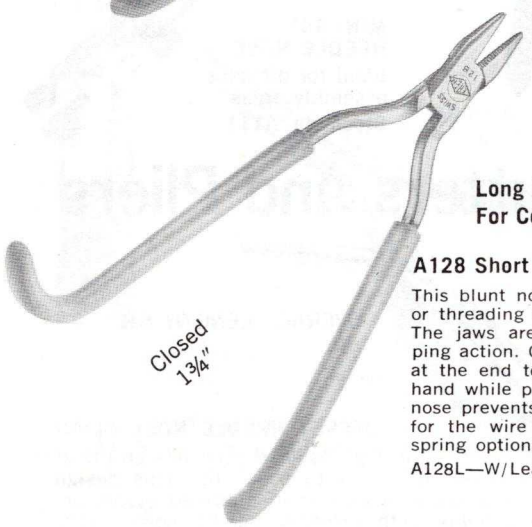
A127L—W/Leaf Spring



Two-In-One
Tool

A129E Double Ended Plier Cutter 8"

Here is a maximum production tool, actually two tools in one. This tool eliminates bothersome handling of two separate tools. Just turn the tool around and use the appropriate end. The plier and cutter are hinged together. The cutter end is a No. A125E, made of tough chrome vanadium steel. The plier is a No. A127. This double tool comes with coil spring and coated handles. The narrow handle design fits the operator's hand comfortably, allowing maximum efficiency.



Long Reach
For Confined Areas

A128 Short Chain Nose Plier 5¾"

This blunt nose plier is ideal for pulling or threading wire during cable assembly. The jaws are serrated for positive gripping action. One of the handles is hooked at the end to prevent slipping from the hand while pulling. The smooth, rounded nose prevents wire nicking while probing for the wire to be threaded. Leaf type spring optional.

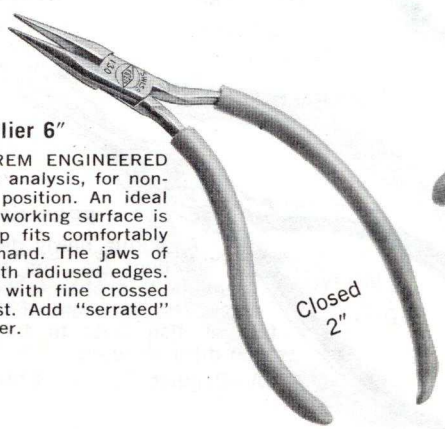
A128L—W/Leaf Spring

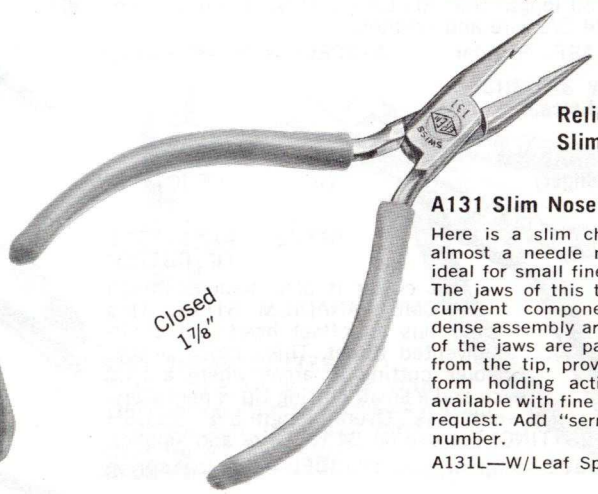
Pistol Grip
Long Reach

A130 Contour Grip Plier 6"

This tool has been EREM ENGINEERED utilizing human factors analysis, for non-fatiguing tool working position. An ideal tool for use where the working surface is vertical. Pistol-type grip fits comfortably into the palm of the hand. The jaws of the plier are smooth with radiused edges. This plier is available with fine crossed serrations upon request. Add "serrated" to the reference number.

A130L—W/Leaf Spring





Relieved Jaw
Slim Chain Nose

A131 Slim Nose Plier 4¾"

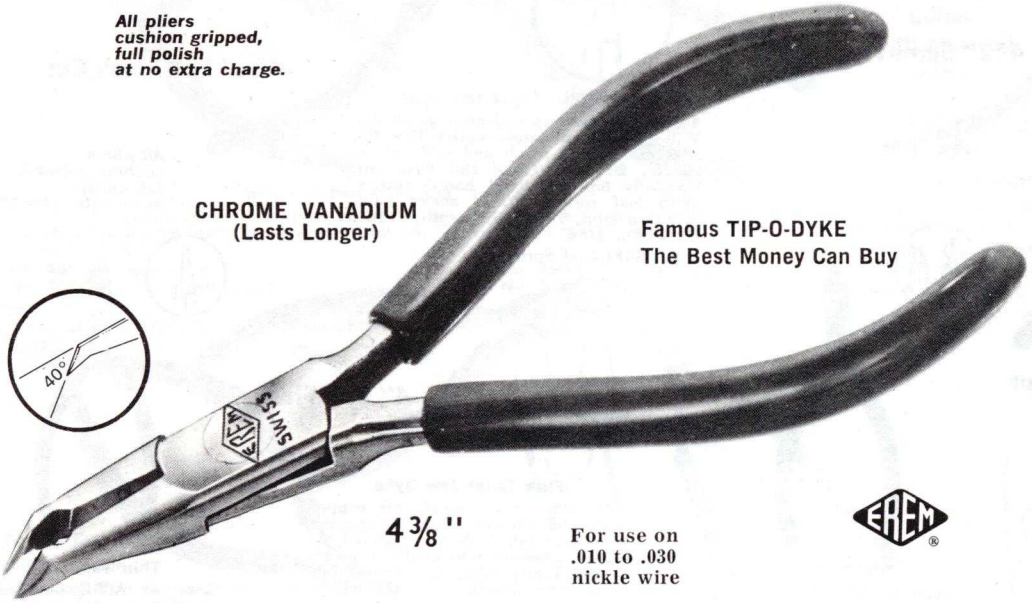
Here is a slim chain nose plier that is almost a needle nose plier. This tool is ideal for small fine assembly applications. The jaws of this tool are relieved to circumvent component leads or wires in dense assembly areas. The inner surfaces of the jaws are parallel for one-half inch from the tip, providing positive and uniform holding action. This tool is also available with fine crossed serrations upon request. Add "serrated" to the reference number.

A131L—W/Leaf Spring

Hunter Special Precise Full Flush Cutting Instruments

NEW TIP-O-DYKE Series

All pliers cushion gripped, full polish at no extra charge.

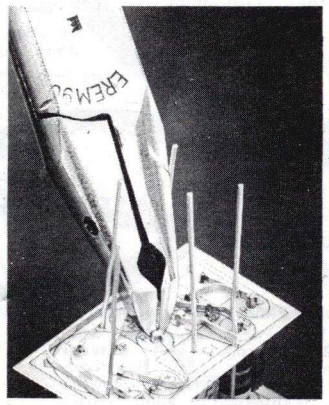


MOST POPULAR MODEL (Small)

No. A90E —Regular.
No. A90EL — With leaf spring.

Forged from Eremadium steel (Chrome Vanadium) for longer lasting cutting life. Medium small, 4⅜" length. Tip length, ¼"; tip width, ⅜"; width across joint, 7/16". For nickel ribbon size .010 x .030 or smaller, transistor, capacitor, diode leads, up to ½ watt resistor leads, up to 22 AS solid copper wire.

Originated by Hunter the Tip-o-Dyke is fast becoming the work-horse of the electronic industry . . . Now available in several sizes and styles. Pick the design that fits your job . .



These cutters will cut flat soft nickel ribbon wire, increase reliability. All fitted with alignment pins, give maximum visibility when cutting nickel ribbon. Cuts at tip with perfect angle.

Very Small

4" small version of popular A-90. Tip length ⅛".

No. A57E Regular
No. A57EL Leaf Spring

Medium Duty

Designed for medium to light work. 5" long, tip 13/32", tip width ¼" x ¼.

No. A59E Regular
No. A59EL Leaf Spring

Heavy Duty

Designed to cut at tip. Heavy duty for larger work. Throat designed to prevent over-cut.

No. A58E Regular
No. A58EL Leaf Spring

TIP-O-DYKE

Vertical (Very Small)

4½" long, precision lap joint w/fitted pin, ideal for module work.

No. A56E Regular
No. A56EL Leaf Spring

TIP-O-DYKE

Perpendicular

4½" long. To be used in miniature assembly work where space is at a minimum.

No. A69AE Regular
No. A69AEL Leaf Spring

TIP-O-DYKE

Special Throat

Relined throat permits reach over dense module and component assemblies.

No. A71AE Regular
No. A71AEL Leaf Spring

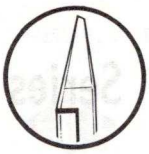
Printed Circuit Long Neck

Special long neck gives flush cut for circuit work. Tip length 1 19/32".

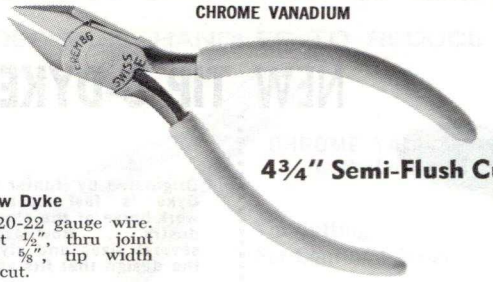
No. A81E Regular
No. A81EL Leaf Spring

Hunter Cutters Cost You Less---They Last Longer

Taper Jaw Diagonals



CHROME VANADIUM



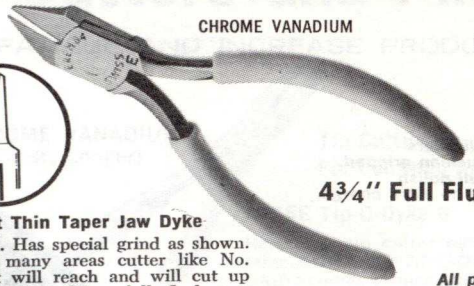
4¾" Semi-Flush Cut

Taper Jaw Dyke

4¾" long for No. 20-22 gauge wire. Width across joint ½", thru joint 9/32", tip length ⅝", tip width 1/16". Semi-flush cut.

No. A86EL Leaf Spring

CHROME VANADIUM



4¾" Full Flush Cut

Finest Thin Taper Jaw Dyke

4¾-in. long. Has special grind as shown. Will reach many areas cutter like No. A92 at left will reach and will cut up to No. 20 wire. Gives full flush cut. Carefully finished, hand honed cutters. With leaf spring. Width across joint, ½"; thru joint, 5/16"; tip length, 9/16"; tip width, 3/64".

No. A84EL Leaf Spring

All pliers cushion gripped, full polish at no extra charge.

4" Full Flush Cut

CHROME VANADIUM

Super Fine, Taper Jaw Dyke

4-in. long. For extremely fine wire, No. 24 soft copper wire. Cuts at extreme tip, gives full flush cut. Shape allows reaching into confined areas. Width across joint, 7/32"; thru joint, ⅜"; tip length, ½"; tip width, 3/64".

No. A92E—Reg. Diagonal
No. A92EL—Leaf Spring

Short Nose

Same as A92E only short nose.

No. A92AE Regular
No. A92AEL Leaf Spring

4" Full Flush Cut

CHROME VANADIUM

Fine Taper Jaw Dyke

4-in. long. For No. 22 soft copper wire and smaller. Cuts at extreme tip. Gives full flush cut. Tapered tip allows reaching into confined areas. Width across joint, ⅜"; thru joint, 7/32"; tip length, ½"; tip width, 3/64".

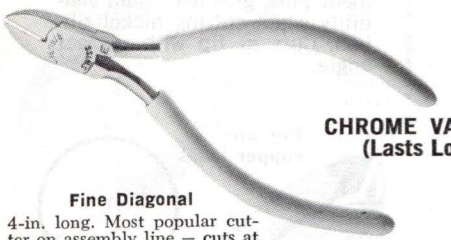
No. A95E—Reg. Diagonal
No. A95EL—Leaf Spring

Thin Taper

Same as A95E only as drawing.

No. A95AE Regular
No. A95AEL Leaf Spring

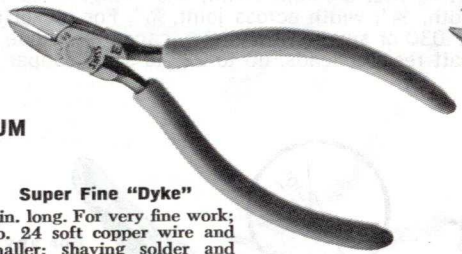
CHROME VANADIUM (Lasts Longer)



Fine Diagonal

4-in. long. Most popular cutter on assembly line — cuts at extreme tip. Semi-flush cut. For fine wire work only, No. 22 soft copper wire and smaller. Width across joint, 13/32"; thru joint, 7/32"; tip length, 1/2".

No. A97E—Reg. Diagonal
No. A97EL—Leaf spring



Super Fine "Dyke"

4-in. long. For very fine work; No. 24 soft copper wire and smaller; shaving solder and extended leads in printed circuit work. Gives full flush cut. Width across joint, 13/32"; thru joint, 7/32"; tip length, 7/16"; tip width, 1/64".

No. A99E—Reg. Diagonal
No. A99EL—Leaf Spring

Finest Diagonal

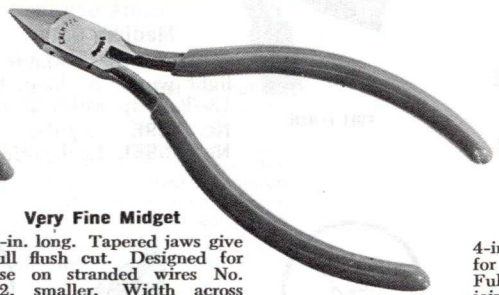
4¾-in. long. Tapered jaw. Reaches limited access spots. For No. 20-22 wire or smaller. Box joint, long wearing. Width across joint, ½" thru joint, 9/32"; tip length, ⅝"; tip width, 1/16".

No. A83L—With leaf sprg.

Super Fine Midget

4-in. long. For No. 24, smaller wire. For very fine work. Full flush cut. Ideal for printed circuits. Width across joint, 13/32"; thru joint, 7/32"; tip length 7/16"; tip width, 164.

No. A79E—Reg. Diagonal
No. A79EL—Leaf Spring



Very Fine Midget

4-in. long. Tapered jaws give full flush cut. Designed for use on stranded wires No. 22, smaller. Width across joint, ⅜"; thru joint, 3/64"; tip length, ½"; tip width, 3/64".

No. A77E—Taper Diagonal
No. A77EL—Leaf Spring

Super Fine Midget

4-in. long. Fine tapered jaw for No. 24 or smaller wire. Full flush cut. Width across joint, 7/32"; thru joint, ⅜"; length of tip, ½"; width of tip, 3/64".

No. A76E—Taper Diagonal
No. A76EL—Leaf Spring

Good Quality Competitively Priced Plier

MIDGET DIAGONAL

Small tool that gives a clean sharp cut. Can be used for all types of fine wire cutting.

A411—4½-in. long. Wt. ea., .3 lb.

Fine Midget

4-in. long. For No. 22, smaller wire. For fine work only. Gives semi-flush cut. With long wearing joint. Width across joint, 13/32;" thru joint, 7/32"; tip length, 7/16"; tip width, 1/64".

No. A80E—Reg. Diagonal
No. A80EL—Leaf Spring

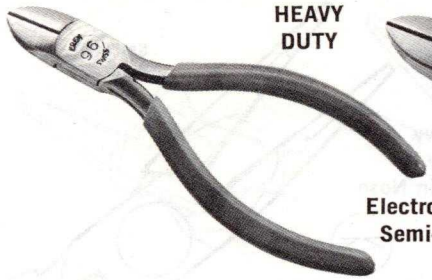
Midget Hard Jaw

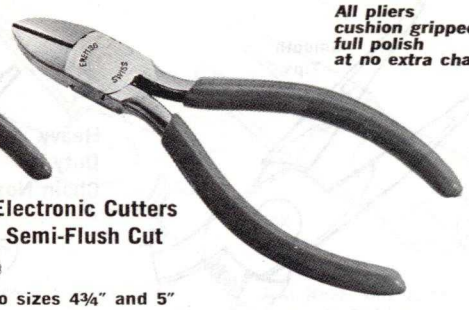
4-in. long. For hard wire No. 22 or smaller. Regular cutting edge. Small dyke for hard service. Width across joint, 17/32"; thru joint, 9/32"; tip length, 21/32"; tip width, 3/64".

No. A52—Mid. Hard Jaw.
No. A52L—With lf. sprg.

Hunter Cutters Cost You Less---They Last Longer

HEAVY DUTY





All pliers cushion gripped, full polish at no extra charge.

Electronic Cutters Semi-Flush Cut

Diagonal two sizes 4¾" and 5"

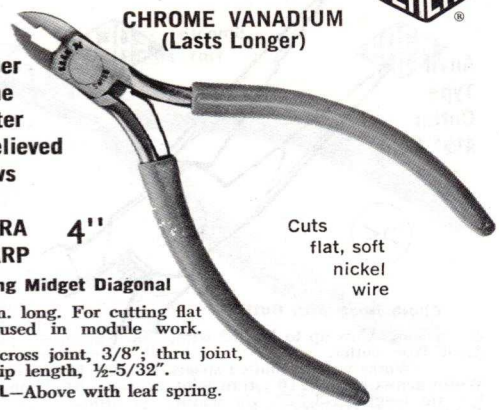
4¾" and 5" lengths. General purpose cutter for the electronics industry. Semi-flush cut. Specifications for 4¾" size: width across joint 15/32"; thru joint, 5/16"; tip length, 5/8"; tip width, 1/32".

No. A96-4¾—Regular 4¾".
No. A96L-4¾—With leaf spring.

No. A96-5—Regular 5".
No. A96L-5—With leaf spring.

CHROME VANADIUM (Lasts Longer)

Super Fine Cutter With Relieved Jaws



EXTRA SHARP 4"

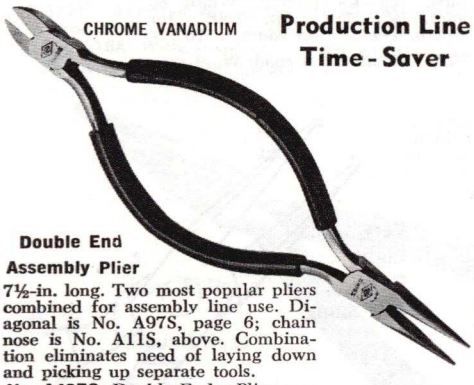
Cuts flat, soft nickel wire

Tip Cutting Midget Diagonal

No. A74E—4-in. long. For cutting flat nickel wire used in module work. Width across joint, 3/8"; thru joint, 7/32"; tip length, ½-5/32".

No. A74EL—Above with leaf spring.

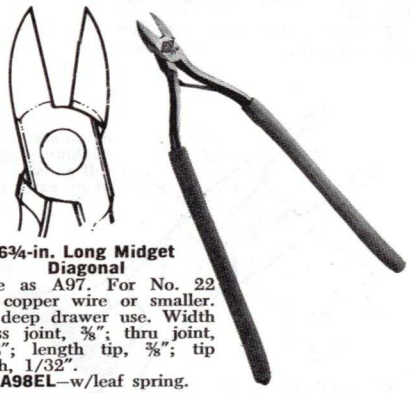
CHROME VANADIUM **Production Line Time-Saver**



Double End Assembly Plier

7½-in. long. Two most popular pliers combined for assembly line use. Diagonal is No. A97S, page 6; chain nose is No. A11S, above. Combination eliminates need of laying down and picking up separate tools.

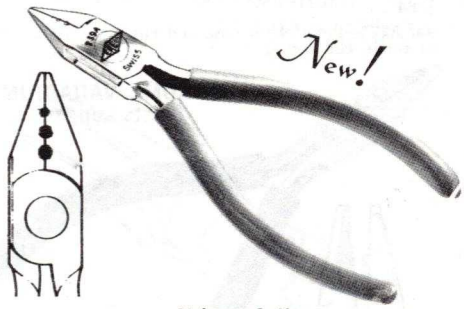
No. A48ES—Double Ender Plier



6¾-in. Long Midget Diagonal

Same as A97. For No. 22 soft copper wire or smaller. For deep drawer use. Width across joint, 3/8"; thru joint, 7/32"; length tip, 3/8"; tip width, 1/32".

No. A98EL—w/leaf spring.



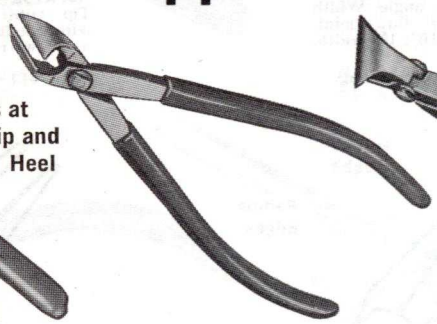
Stripper Cutter

4¾-in. long; nose 5/8". Semi-flush Cutter and Wire Stripper. Stripper hole sizes .036, .030, .021. Available with coil spring only. **No. A239A.**

Screw Joint Nippers For "Fussy" Work

Cuts at Tip and Heel

No. A65—Oblique head nipper, straight handles.



Cuts at Tip and Heel

No. A66—Oblique head nipper, bowed handles.

Cuts at Tip and Heel

No. A67—End Nipper, cutter pointed on both ends, straight handles.

(not shown) **No. A67B**—End Nipper, one-end pointed, one round, curved handles.

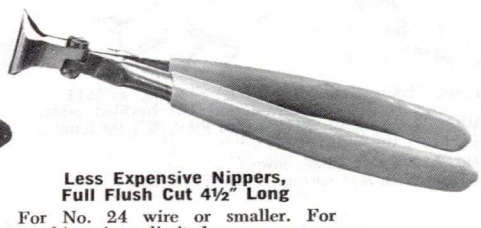
- Forged in Switzerland from high carbon tool steel.
- Beautifully precision finished to let users do the "fussiest" most careful work.
- Honed cutting edges are sharp and accurate. Stay sharp for longer periods—give full flush cut.
- Screw joint type allows easy accurate resharpening.

These nippers are made in the finest Swiss tradition, forged from high carbon tool steel, heat treated and hardened to the proper Rockwell hardness. Every tool hand finished for fine appearance and fine action. Hand honed cutters are sharp, will stay sharp but screw joint construction allows disassembly for easy and accurate resharpening. All nipper 4½-in. long.

Razor Sharp Cutters Fine Tip Cutter

Extremely fine pointed Tip Cutter, designed to cut ribbon nickel in modules flush to the component leads. Large center cutout permits reach-over in dense modules when necessary. Blades are hand honed to precision sharpness. Designed to outlast any comparably priced cutter available. Reduced size of head increases accessibility and visibility. **No. A68**

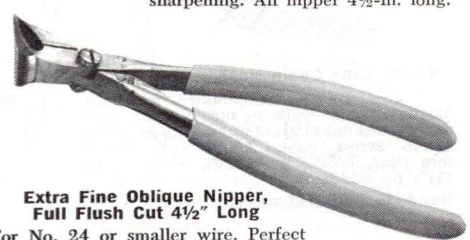
No. A68B—Same as A68 with narrower blades for use in extremely dense module packs.



Less Expensive Nippers, Full Flush Cut 4½" Long

For No. 24 wire or smaller. For reaching into limited access areas, around printed circuits and for micro-miniature work. Width across joint, ½"; thru joint, ¼"; tip length, 3/8"; tip width, ¾".

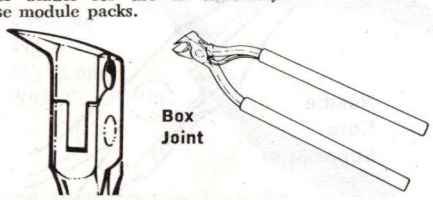
No. A45—Extra-fine nipper.
No. A45L—Nipper with leaf spring.



Extra Fine Oblique Nipper, Full Flush Cut 4½" Long

For No. 24 or smaller wire. Perfect for printed circuit work. Special design allows cutting edges to outlast ordinary one 5 to 1. Width across joint, ½"; thru joint, ¼"; tip length, 3/8"; tip width, ¾".

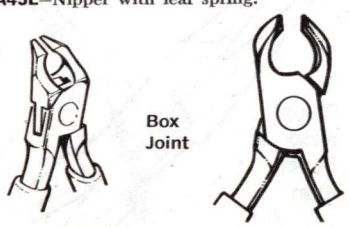
No. A46—Extra fine Oblique nipper.
No. A46L—With leaf spring.



Very Long Cutter Nipper, Full Flush Cut

6⅞-in. long. Oblique type with extended cutting edge as shown in above picture. Cuts No. 22 wires and smaller. Long handle allows cutting flush in deep areas. Good for deep chassis or circuit drawer work. Precision made with jewelers box joint, hand precision fitted for easy operation. Width across joint, 13/32"; thru joint, ¼"; tip length, ⅞"; tip width, 1/32".

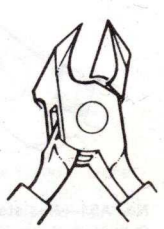
No. A49L—Very long Nipper with leaf spring.



Tip Cutting Oblique Nippers

No. A78—4½-in. long. Ideal for snipping soft, flat nickel wire; for welded module work. Width across joint, 7/16"; thru joint, 9/32"; tip length, 9/32"; tip width, 1/8".

No. A78L—With leaf spring.

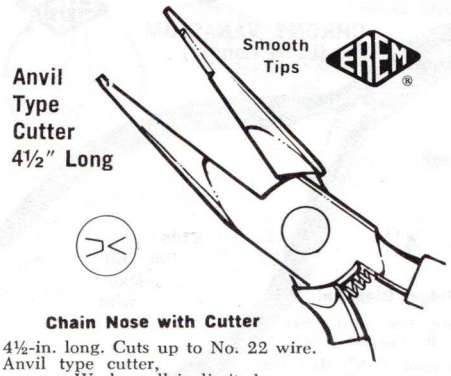


Extra-fine Oblique, Full Flush

4½-in. long. Box joint. Cuts No. 22 or smaller wire. Cutting tip visible even in confined areas. For circuit, miniature work. Width across joint, 7/16"; thru joint, 9/32"; Tip length, 7/8"; width, 1/32".

No. A94—Extra-fine oblique.
No. A94L—With leaf spring.

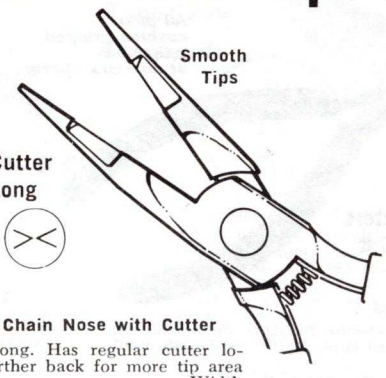
Hunter's Chain Nose and Tip Cutting Pliers



Chain Nose with Cutter

4½-in. long. Cuts up to No. 22 wire. Anvil type cutter,
Works well in limited space. Width across joint, 7/16"; thru joint, ¼"; tip length, 1-3/32"; tip width, 3/64".

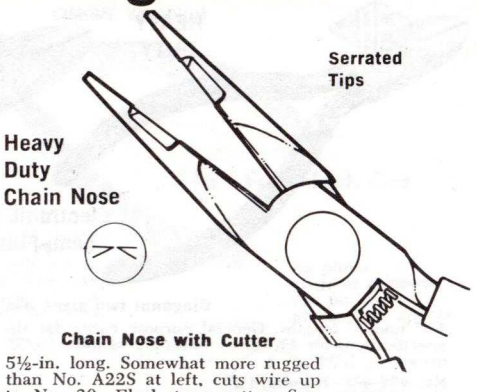
No. A22S—Long chain nose and cutter comb. coil spring.



Chain Nose with Cutter

4½-in. long. Has regular cutter located farther back for more tip area
Width across joint, 7/16"; thru joint, 13/64"; tip length, 1-3/32"; tip width 3/64".

No. A23S—Long chain nose and cutter with coil spring.



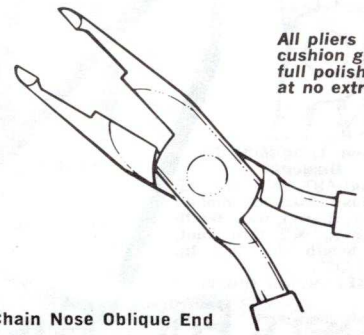
Chain Nose with Cutter

5½-in. long. Somewhat more rugged than No. A22S at left, cuts wire up to No. 20. Flush type cutter. Serrated tips for pulling. Width of joint, ½"; thru joint, 3/16"; tip length, 1-9/32"; tip width, 1/16".

A27S— Chain-cutter comb. W. cl. sprg.

A64E — Anvil Cut Dyke

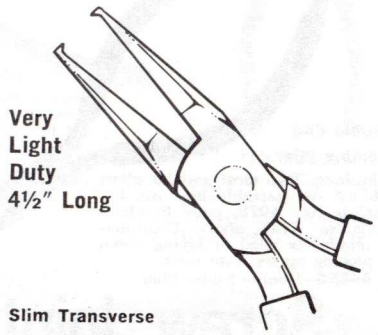
4 3/16" long, precision machined pin and lap joint. This high quality dyke has only one cutting edge for longer life. **No. A64E**



Chain Nose Oblique End

No. A35E– 4¾-in. long. For end flush cutting at a 45 degree angle. Width across joint, 13/32"; thru joint, 7/32"; tip length, 13/16"; tip width, 1/8".

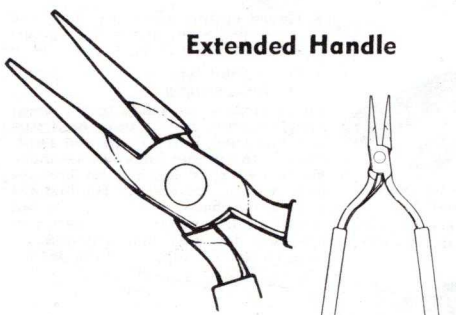
No. A35EL—Above with leaf spring.



Slim Transverse

No. A73E– 4½" long. Tip cut. For nickel wire, modular component work.

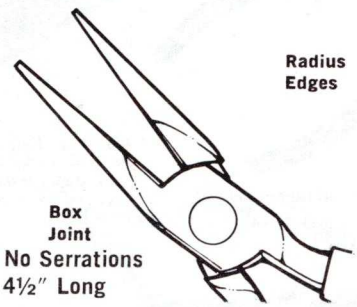
No. A73EL—W/spring.



6⅞-in. Long Chain Nose

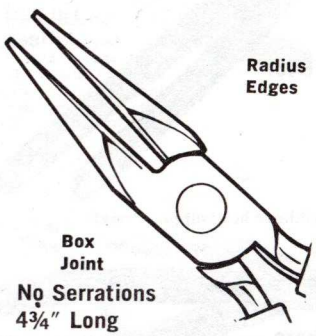
Long handle permits work in normally inaccessible spots. Width across joint, 7/16"; thru joint, 7/32"; tip length, 1⅛"; tip width, 3/64".

No. A1L—With leaf spring.



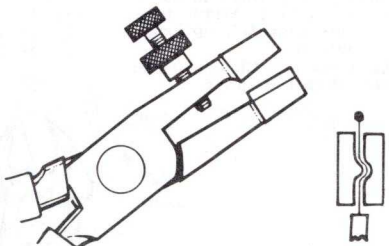
Long Chain Nose. 4½-in. long. Same as A11 but is not as narrow and has beveled edge. Width across joint, 7/16"; thru joint, ¼"; tip length, 1-1/16"; tip width, 1/16".

No. A12—Long Chain nose.
A12L—With leaf spring. **A12S**—With coil spring.



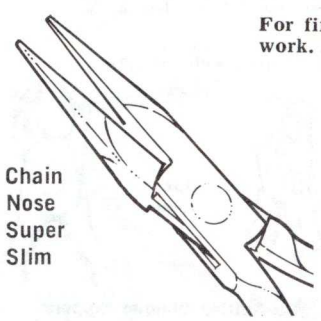
Long Narrow Chain Nose, Radius Edges, Box Joint. For forming or bending – no marring with radius edges. 4¾-in. long. Width across joint, 7/16"; thru joint, ¼"; tip length, 1⅛"; tip width, 1/16".

No. A30E—Long chain nose. **A30EL**—With lf. spng.



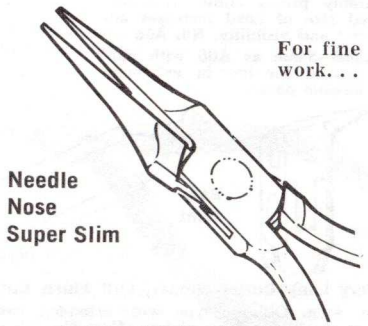
No. A54—Resistor Wire Bending Plier. 5-in. long. Put semi-circular bend in wire for relief of heat expansion. Time saver in circuit work. Width across joint, 17/32"; thru joint, 1/4"; tip length, 1-3/64"; tip width, 3/8".

No. A54L—Plier with leaf spring.



No. A44A—4½-in. long. Super slim chain nose. Width across joint, 1/4"; thru joint, 5/32"; tip length, 15/16"; tip length, 15/16"; tip width, 1/32".

No. A44AL—Above with leaf spring.

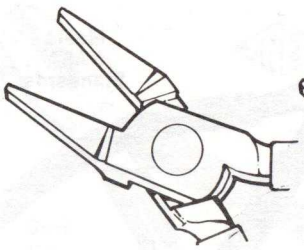


Slimmest Plier Made

No. A47—4½-in. long. Super slim needle nose. Width across joint, 5/16"; thru joint, 3/16", tip length, 15/16"; tip width, 1/32".

No. A47L—Above with leaf spring.

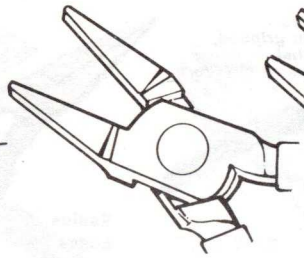
Hunter Flat and Round Nose Electronic Pliers



4½-In Flat Nose

For straightening small pins, wires. Handling thin, wafer sheets, smooth jaw – won't mar component, wire. Width across joint, 7/16"; width thru joint, 7/32"; length of tip, 5/32"; width of tip, 3/16". Swiss made.

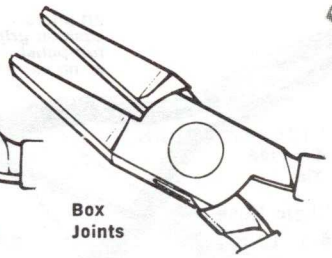
No. A15A—Without spring.
No. A15AL—With leaf spring.



Narrow Jaw Flat Nose

4½-in. long. Same plier as one at left but with narrower jaws for greater precision use. Swiss made. Width across joint, 15/32"; width thru joint, ¼"; length of tip, 1-25/32"; width of tip, 1/8".

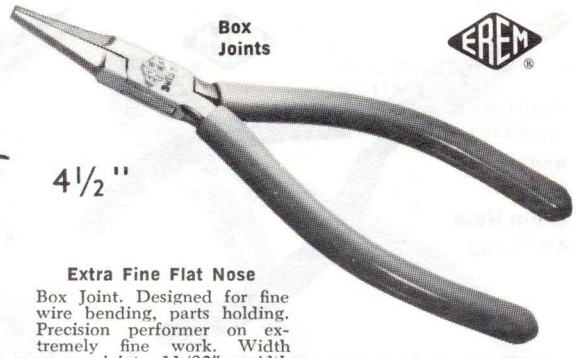
No. A15B—Without spring.
No. A15BL—With leaf spring.



Flat Nose, Box Joint

4½-in. long. Precision Swiss made. A tool carefully made for careful work. Will give long service. Box joint. Width across joint, ½"; width thru joint, ¼"; length of tip, 2-7/32"; width of tip, 5/64".

No. A36—Without spring.
No. A36L—With leaf spring.

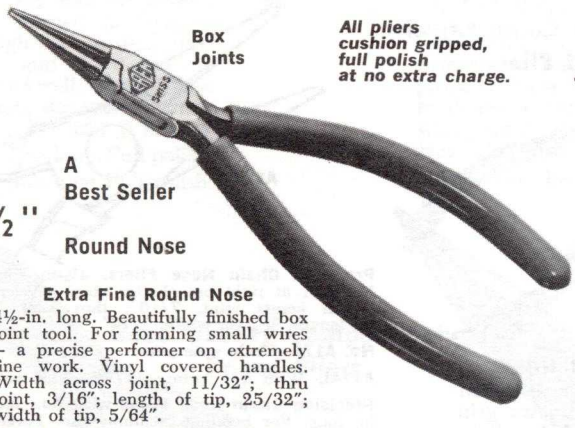


Extra Fine Flat Nose

Box Joint. Designed for fine wire bending, parts holding. Precision performer on extremely fine work. Width across joint, 11/32"; width thru joint, 3/16"; length of tip, 27/32"; width of tip, 5/64".

No. A42—Without spring.
No. A42L—With leaf spring.

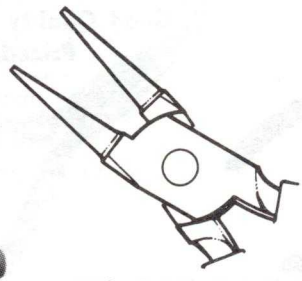
ALL PLIERS
SATIN POLISH
CUSHION HANDLES
NO EXTRA CHARGE



Extra Fine Round Nose

4½-in. long. Beautifully finished box joint tool. For forming small wires – a precise performer on extremely fine work. Vinyl covered handles. Width across joint, 11/32"; thru joint, 3/16"; length of tip, 25/32"; width of tip, 5/64".

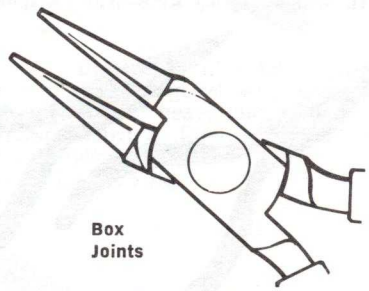
No. A43—Extra fine round nose plier.
No. A43L—Above with leaf spring.



4½-in. Round Nose Plier

For precision forming, looping, curling, coiling of fine wire. Completely round, satin smooth jaws, won't mar fine surfaces. Width across joint, 15/32"; thru joint, 15/64"; length of tip, ¾", width of tip, 1/16".

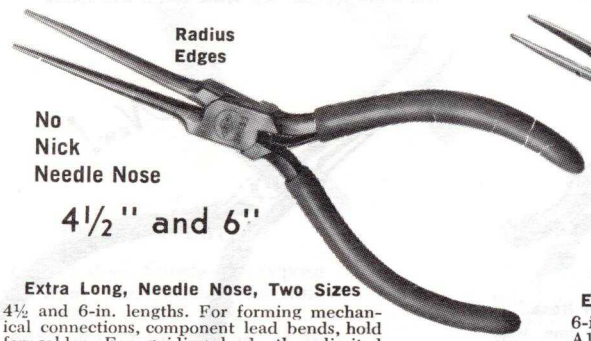
No. A16A—Regular plier.
No. A16AL—With leaf spring.



Precision Round Nose

4½-in. long. Precision Swiss made box joint plier. Polished head, vinyl grips. For precision forming of medium sizes wire. Long wearing tool. Width across joint, 15/32"; thru joint, 15/64"; length of tip, 3/4"; width of tip, 1/16".

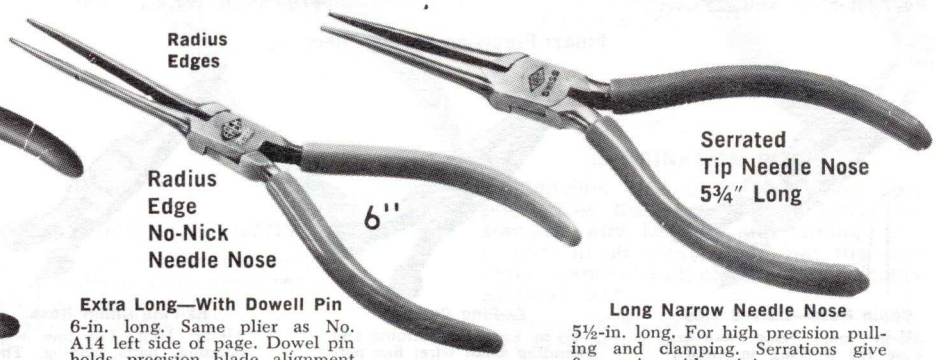
No. A37—Regular style.
No. A37L—Plier with leaf spring.



Extra Long, Needle Nose, Two Sizes

4½ and 6-in. lengths. For forming mechanical connections, component lead bends, hold for solder. For guiding leads thru limited access area. For light work only. Size specs for 4½" size: Width across joint 13/32"; thru joint, 1/4"; tip length, 1-9/16"; tip width, 1/16".

No. A14—4½ or 6-in. State size wanted.
No. A14L—Above w/leaf spring. State size.



Extra Long—With Dowell Pin

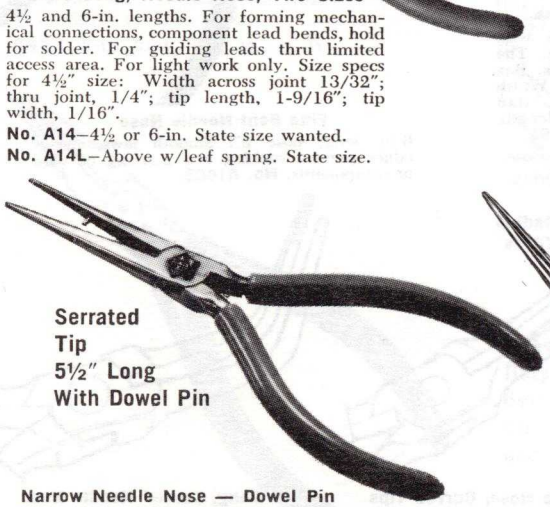
6-in. long. Same plier as No. A14 left side of page. Dowel pin holds precision blade alignment even when twisting slightly heavier wire. Radius ground edges. Width across joint, 15/32"; thru joint, 9/32"; tip length, 2¼"; tip width, 1/16".

No. A24S—With coil spring.

Long Narrow Needle Nose

5½-in. long. For high precision pulling and clamping. Serrations give firm grip with minimum pressure. Swiss made. Fine finish with vinyl handle grips. Width across joint, ½"; thru joint, 9/32"; tip length, 1-13/16"; tip width, 5/64".

No. A5—Regular long needle nose.
No. A5L—Above with leaf spring.



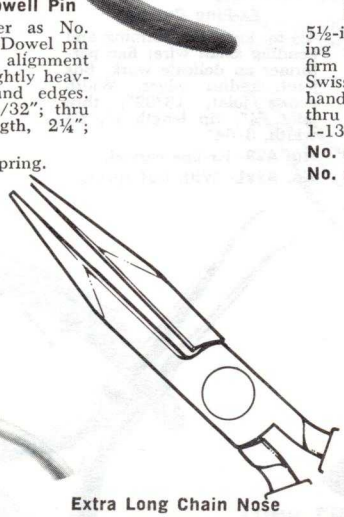
Narrow Needle Nose — Dowel Pin

5½-in. long. Serrated jaw gives positive grip and permits heavier work. Dowel holds jaw in precision alignment. Vinyl grips. Swiss made. Width across joint, 13/32"; thru joint, 1/4"; tip length, 1-23/32" tip width, 1/16".

No. A25S—With coil spring only.
No. A25AS—Same as on A25S only with smooth jaws and radius edges.

Flat Tip-Needle Nose Plier

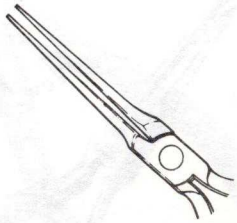
6-in. long; nose 2¼". Smooth jaws, radius edges. Outer surfaces of the tips are flat for ½" so pliers can be used where space is limited. **No. A14B.**



Extra Long Chain Nose

6-in. long. Carefully finished long wearing box joint. Vinyl grips. For forming and bending. Has radius ground, mar-free jaw edges. Width across joint, ⅜"; thru joint, 5/16"; length of tip, 1-17/32"; width of tip, ⅛".

No. A41—Extra-long chain nose.
No. A41L—Above with leaf spring.

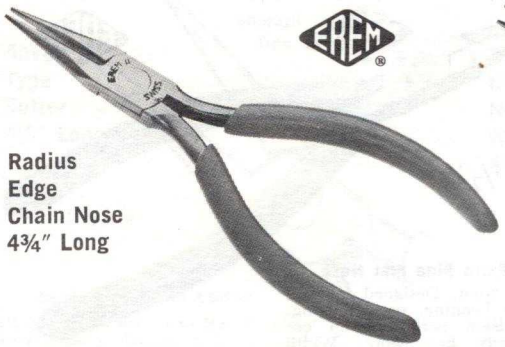


Extra Long, Narrow Needle Nose

6-in. long. Exquisitely made. Vinyl grips. For forming and bending. Has mar free radius edges. Long wearing box joint. Width across joint, 7/16"; thru joint, 9/32"; tip length, 2½"; tip width, 3/64".

No. A39—Extra-long needle nose.
No. A39L—Above with leaf spring.

Radius and Serrated Chain Nose Pliers

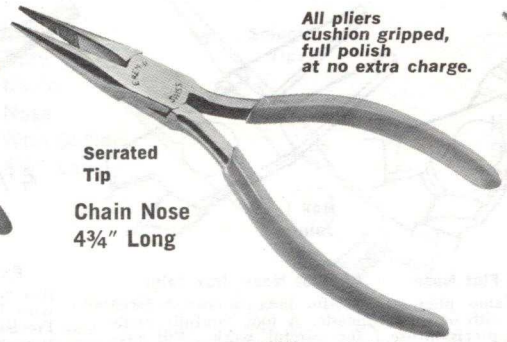


Long Narrow Chain Nose Plier. 4¾-in. long. For precision pick up, looping, twisting, bending finest wire, holds components for solder. Smooth jaw, radius edges will not mar wire. Width across joint, 7/16"; thru joint, ¼"; tip length, 1⅛"; tip width, 1/16".

No. A11—Narrow chain nose.

A11L—With leaf spring. **A11S**—With coil spring.

All pliers cushion gripped, full polish at no extra charge.



Long Narrow Chain Nose Plier. 4¾-in. long. For precision pick up, looping, twisting, bending finest wire, holds components for solder. Serrations give firm grip with minimum pressure.

Width across joint, 7/16"; thru joint, ¼"; tip length, 1-1/16"; tip width, 1/16".

A11D—With serrations.

A11DL—With leaf spring.

New Style: Precision Screw Joint

No. A36A 4¾" Flat Nose
No. A37A 4⅝" Half Round
No. A38A 4 13/16" Radius Chain Nose

Ex-Long Chain Nose

Two sizes: 4½" and 5". Specifications, 5" size: Width across joint, ½"; thru joint, ¼"; tip length, 1 7/32"; tip width, 3/32".

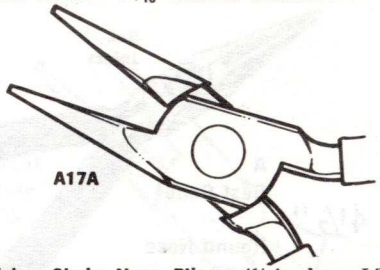
No. A20-4½"—4½" long.
No. A20L-4½"—4½" with leaf spring.
No. A20-5"—5" long.
No. A20L-5"—5" with leaf spring.

Good Quality Competitively Priced Plier

MIDGET CHAIN NOSE

Small tool handy in restricted areas. Fine serrated jaws grip wire firmly — good for light work.

A410—4¾-in. Wt. ea., .3 lb.



Precision Chain Nose Pliers. 4½-in. long. Like No. A11 at right but shorter nose, beveled edges. Width across joint, 7/16"; thru joint, 15/64"; tip length, ¾"; tip width, 1/16".

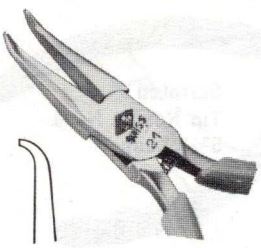
No. A17A—Chain nose plier.

A17AL—With leaf spring; **A17AS**—With coil spring.

Precision Chain Nose Pliers with Box Joint. 4½-in. long. For bending medium wire. Forged steel, vinyl grips. Width across joint, 7/16"; thru joint, 15/64"; tip length, ¾"; tip width, 1/16".

No. A38—Regular. **No. A38L**—With leaf spring.

Finest Precision Wiring Pliers . . .



Chain Nose—Curved Tips

4½-in. long. Long, narrow. Fine for working in angled areas, around corners. Satin smooth jaws; No-Mar radius edges. Width across joint, 13/32"; thru joint, ¼"; tip length, 1"; tip width, 3/64".

No. A21S—Curved tip chain nose with coil spring.

Ex-Fine Curved

4½-in. long. For forming and bending small wire; fine performer on delicate work. Box joint, radius edges. Width across joint, 13/32"; thru joint, ¼"; tip length 1", tip width, 3/64".

No. A29—Ex-fine curved.

No. A29L—With leaf spring.

Ex-Fine Chain Nose

4½-in. long. For fine wire bending, parts holding. The right tool for fine work. Box joint. Vinyl grips. Width across joint: 11/32"; thru joint, 3/16"; tip length, 29/32"; tip width, 3/64".

No. A44—Ex-fine chain nose.

No. A44L—With leaf spring.

Fine Bent Needle Nose

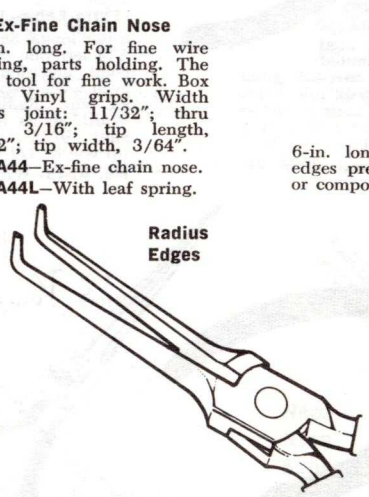
6-in. long; nose 2". Smooth jaws, radius edges prevent nicking and marring of wire or components. **No. A14CS.**

Bent Serrated Needle Nose

6-in. long; nose 2". ½ of the tip has fine crossed serrations which enable a positive holding action. **No. A14DS.**

45° Short Needle Nose

5½-in. long; nose 1½". Smooth jaws, radius edges. ½ in. 45° bend in the nose makes tool ideal for difficult areas. Prevents nicking and marring of wire or components. **No. A140.**

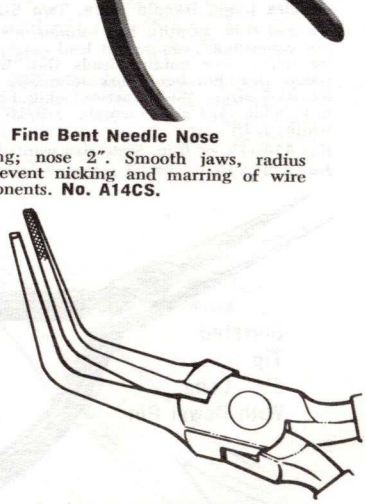


Ex-long Needle Nose, Curved Tips

6-in. long. For precision pickup, bending, holding small wire and components in extremely limited access areas. Satin smooth jaws with radius edges — mar free on the finest wire. Vinyl grips. Swiss made. Width across joint, 15/32"; thru joint, 9/32"; length of tip, 2"; tip width, 3/32".

No. A4—Ex-long curved tip needle nose.

No. A4L—Above with leaf spring.



Long, Curved Needle Nose

5¼-in. long with 90 degree angle bend in center. For precision pickup in extremely limited access areas. Tips have positive grip serrations. Width across joint, 15/32"; thru joint, 9/32"; tip length, 1-3/16"; tip width, 1/16".

No. A13—Long curved needle nose.

No. A13L—Above with leaf spring.

Heavy Duty and General Purpose Pliers and Cutters

Best Money Value!

LINEMAN'S SIDE CUTTING PLIER

Heavy duty tool for rugged service. Forged in Switzerland, high carbon steel, heat treated and hardened to right Rockwell. Square nose type. State size wanted when ordering. Wt. ea., .5 lb.

A60-7—7-in. long. Full polish.
A60-8—8-in. long. Full polish.

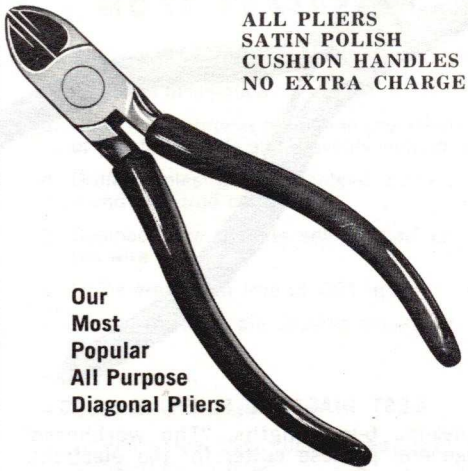
CHROME VANADIUM

Tops With Electricians

HEAVY DUTY DIAGONAL

Outstanding plier. Forged from special high grade steel, properly heat treated and hardened. Carefully finished, with hand honed cutters. Has full polish finish.

A87E—7-in. long. Wt. ea., .5 lb.



ALL PLIERS
SATIN POLISH
CUSHION HANDLES
NO EXTRA CHARGE

Our Most Popular All Purpose Diagonal Pliers

DIAGONAL CUTTER

General purpose diagonal with honed cutters. Excellent for heavy duty work in the electronic industry. Quality finished and cushion gripped. Semi-flush cut.

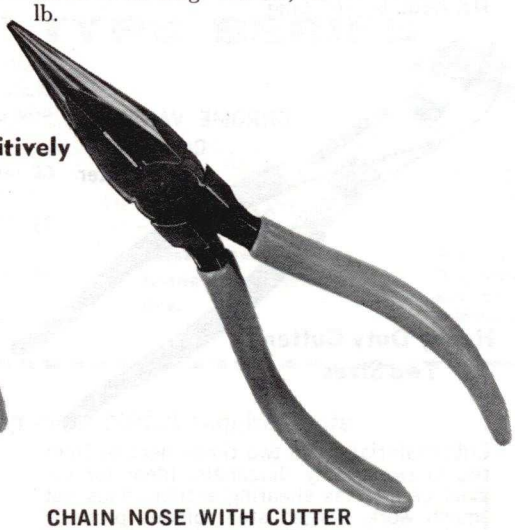
A96-6—6 inches long.

Good Quality Competitively Priced Pliers

DIAGONAL CUTTER

Forged steel. Sturdy all-purpose medium size cutter. For fine to medium cutting jobs.

A453—5-in. long. Wt. ea., .4 lb.



CHAIN NOSE WITH CUTTER

Very popular combination plier. Sharp cutters. Jaws finely serrated to grip wire firmly.

A387—5¾-in. long. Wt. ea., .4 lb.

Plier and Side Cutter A Best Seller

COMBINATION PLIER

Combination side-cutter and chain nose plier—does the work of two tools. The standard wire bending and forming tool. A must in all wiring work. Has the easy action wanted by all electrical technicians. Serrated jaws.

A61-6—6-inches long.
A61-7—7-inches long.

COMBINATION PLIER

Combination tip cutting and chain nose plier — does the work of two tools. Very useful plier for radio, ignition work. Honed cutters.

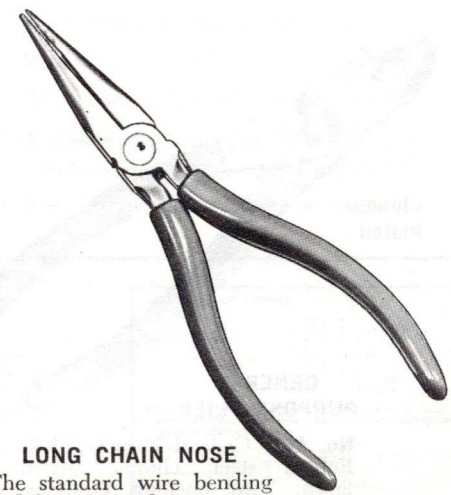
A2—6½-inches long.

Heavy Duty
6½" Long
Cuts 18 Ga. Wire and Smaller

TRANSVERSE CUTTER

Flush end cutting plier with leaf spring. A necessity in doing close wiring work; saves time on multiple cuts. End cutters hand honed.

A7L—6½-inches long.

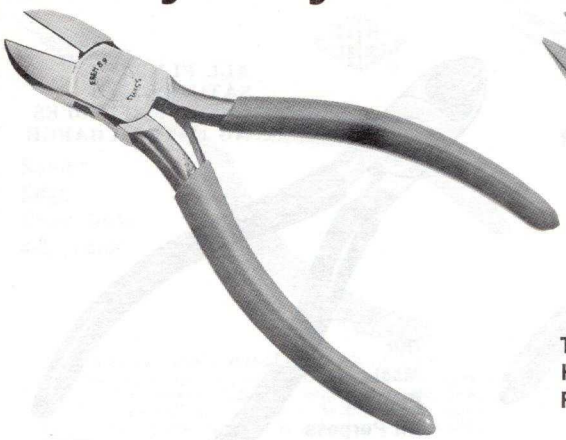


LONG CHAIN NOSE

The standard wire bending and forming tool. A must in all wiring work. Has the easy action wanted by all electrical technicians. Serrated jaws.

A8—6½-inches long.

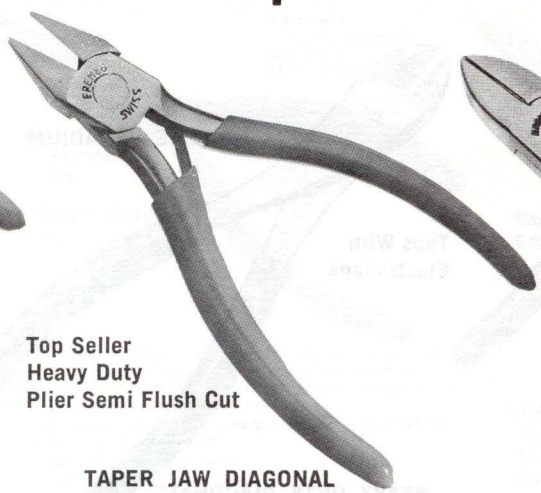
Heavy Duty and General Purpose Pliers and Cutters



BEST DIAGONAL PLIER—2 SIZES

4¾-in., 6-in. lengths. "The workhorse" general purpose cutter for the electronic industry. Swiss made, box joint, finely finished, vinyl handle grips. Size 4¾" specifications: Width across joint, 17/32"; thru joint, 5/16"; tip length, 5/8"; tip width, 1/32"; for specifications other sizes 4¾" for No. 20 wire and smaller, 6" for No. 16 to 18.

No. A89L-4¾"—4¾" long.
No. A89L-6"—6" long.



Top Seller Heavy Duty Plier Semi Flush Cut

TAPER JAW DIAGONAL

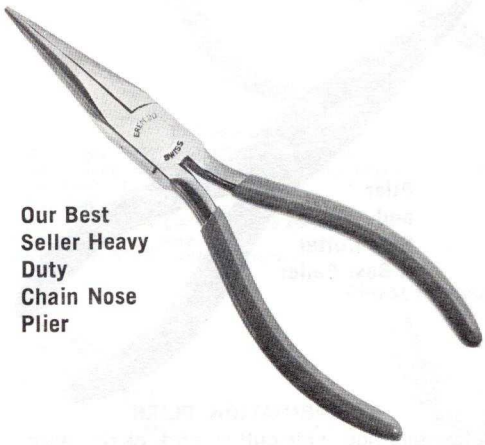
5-in. 6-in. lengths for every cutting need. Semi-flush cut. Use 5" for No. 18-20, 6 for No. 16-18. Size specifications for 4½" length are: width across joint, ½"; thru joint, 9/32"; tip length, 5/8"; tip width, 1/16". Cuts wire sizes: 4¾" No. 20 soft; 5" No. 18 soft; 6" No. 16 soft.

No. A86L-5"—5" long.
No. A86L-6"—6" long.

REGULAR HARD JAW

5-in. long. For hard wire No. 20 or smaller. Regular cutting edge. Rugged, extra-heavy dyke. Vinyl grips. Width across joint, 19/32"; thru joint, 13/32"; tip length, 25/32"; tip width, 1/16".

No. A53—Regular Hard Jaw.
No. A53L—With leaf spring.



Our Best Seller Heavy Duty Chain Nose Plier

EX-LONG CHAIN NOSE

6-in. Specifications, 5" size: Width across joint, ½"; thru joint, ¼"; tip length, 1 7/32"; tip width, 3/32".

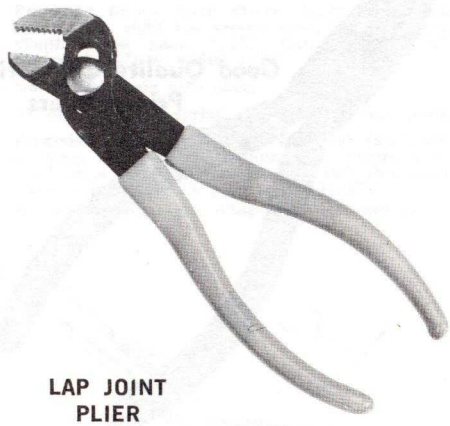
No. A20-6—Regular.
No. A20L-6—With leaf spring.

CHROME VANADIUM Coaxial Cable Cutter

Heavy Duty Cutter Two Sizes

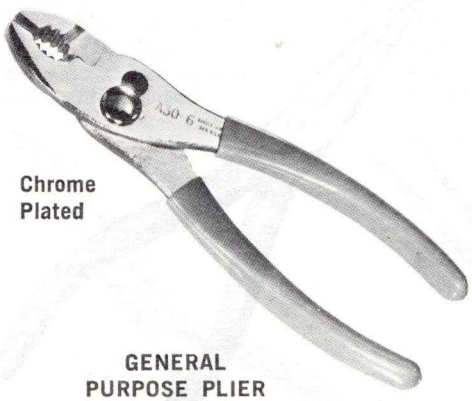
Cuts material up to two times heavier than the heaviest duty diagonals. Ideal for coaxial cable. Has shearing action—does not smash work. Forged steel blades properly hardened, hand fitted and hand honed. Width across joint, 1"; through joint, 13/32"; tip length, 21/32".

No. A51-6½—Heavy duty cable cutter 6½".
No. A51-9—Very heavy duty cable cutter 9"



LAP JOINT PLIER

No. A32—5-inch Lap Joint plier. Forged steel, black finish. Three jaw positions. Used for ignition and application of that character. Weight each, .3 lb.



Chrome Plated

GENERAL PURPOSE PLIER

No. A30—General Purpose plier. Forged steel, chrome plated finish. Two opening positions. Standard plier found in every tool kit, has multiple uses. Available 5" and 6" long.

No. A30-5 and **A30-6** – Weight each, .4 lb.

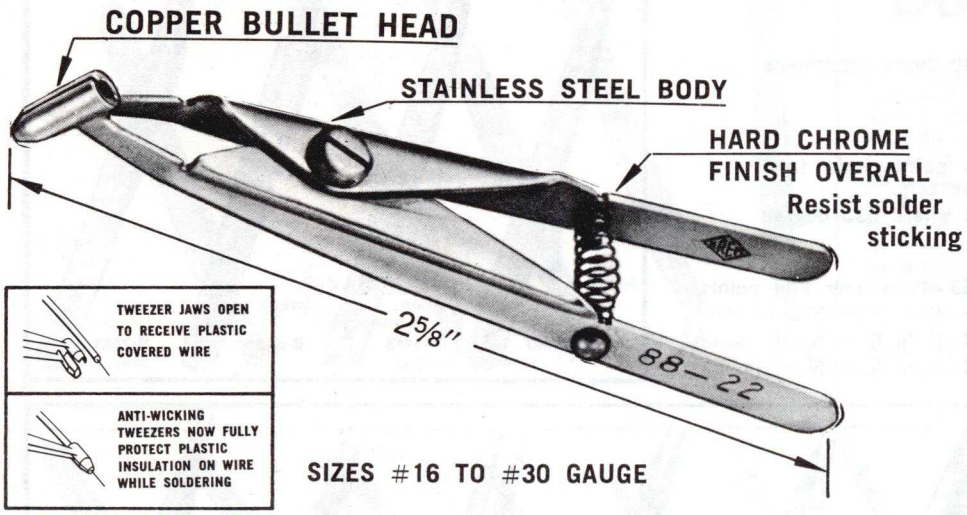
All Hunter Pliers Come Equipped With Cushion Grip Handles At No Extra Charge

The Plier most widely used in Industry for Repair Maintenance and Similar Applications

Heat treated forged steel. Multi-groove construction makes this the strongest plier of its type ever built. Deep set shark-like teeth hold with bulldog grip. Full range of adjustments up to two full inches. Chrome finish. Available 7½" and 10" long.

Stock No. A31-7½ and **A31-10**—Weight each, .7 lb.

Hunter EREM - Anti-Wicking Tweezers....



TWEEZER JAWS OPEN TO RECEIVE PLASTIC COVERED WIRE
ANTI-WICKING TWEEZERS NOW FULLY PROTECT PLASTIC INSULATION ON WIRE WHILE SOLDERING

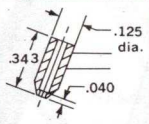
SIZES #16 TO #30 GAUGE

MORE FEATURES

1. Eliminates wicking
2. Fast heat dissipation
3. Hard flash chrome maintains precision of the drilled hole and prevents wetting.
4. Drilled holes are guaranteed perfect round and true centered
5. Compact size permits self support on the wire
6. Holes are drilled true to .001 inch
7. Design of hinge pin assures alignment of tips
8. Spring action
9. Size — 2⅝" overall
10. Stainless steel body, copper head—hard chrome finish overall

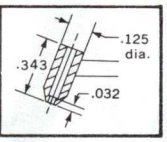
GROUP I

Hunter Stock No.	Amer. Wire Gauge	Hole Dia. 1000ths of inch
C-88/AWG16	16	.055-.056
C-88/AWG18	18	.046-.047



GROUP II

C-88/AWG20	20	.035-.036
C-88/AWG22	22	.028-.029
C-88/AWG24	24	.022-.023
C-88/AWG26	26	.017-.018
C-88/AWG28	28	.012-.014
C-88/AWG30	30	.010-.011



DELUXE BULLET TYPE SERIES

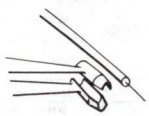
Hunter anti-wicking tweezers are made from carbon steel, hard chrome plated to keep solder from sticking to them. They are a necessary tool in all fine wire soldering jobs.

No. C-44—4¾-in. long. For wire sizes No. 28 through No. 30 inclusive.

No. C-45—4¾-in. long. For wire sizes No. 24 through No. 26 inclusive.

No. C-46—4¾-in. long. For wire sizes No. 20 through No. 22 inclusive.

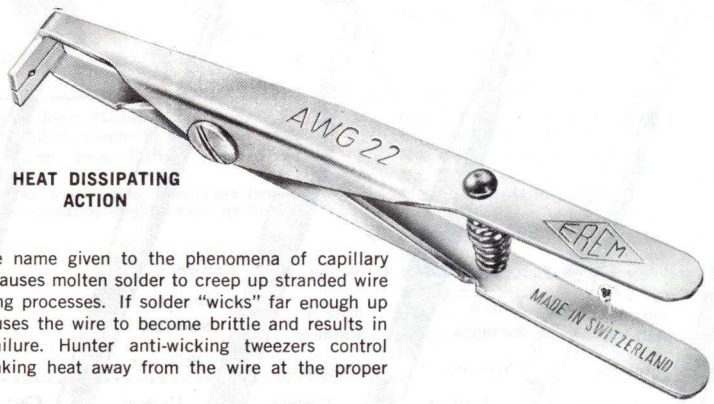
No. C-47—4¾-in. long. For wire sizes No. 16 through No. 18 inclusive.



Tweezer Jaws open to receive plastic covered wire.

Anti-wicking tweezer now fully protects plastic insulation on wire while soldering.

C-77 Series designed to help meet NASA requirements

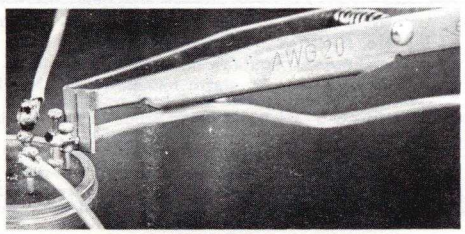


HEAT DISSIPATING ACTION

- Wicking is the name given to the phenomena of capillary action which causes molten solder to creep up stranded wire during soldering processes. If solder "wicks" far enough up the wire it causes the wire to become brittle and results in subsequent failure. Hunter anti-wicking tweezers control wicking by sinking heat away from the wire at the proper point.
- NASA developed anti-wicking tweezers and has set standard dimensions for the control of wicking. Hunter anti-wicking tweezers meet these standards.

FEATURES

1. Stainless Steel
2. Length — 2⅝" overall
3. Holds firmly positive grip
4. Maximum positive contact
5. Stranded wire remains flexible
6. Holds lead wires during soldering
7. Wire gauges marked on tool
8. Correct spring tension
9. Available with blank tips for use on special adaptions — use Stock No. C-77/00
10. Available in odd size holes on request



TYPICAL APPLICATION

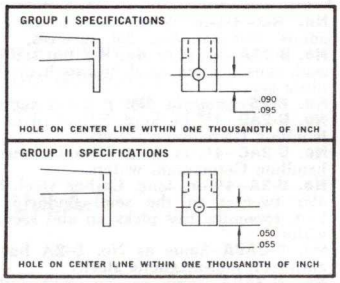
SPECIFICATION CHART

GROUP I

Hunter Stock No.	Amer. Wire Gauge	Hole Dia. 1000ths of inch	Thickness of Mat'l stn. steel
C-77/AWG16	16	.055-.056	.050-.040
C-77/AWG18	18	.046-.047	.050-.040

GROUP II

C-77/AWG20	20	.035-.036	.032-.031
C-77/AWG22	22	.028-.029	.032-.031
C-77/AWG24	24	.022-.023	.032-.031
C-77/AWG26	26	.017-.018	.032-.031
C-77/AWG28	28	.013-.014	.032-.031
C-77/AWG30	30	.010-.011	.032-.031

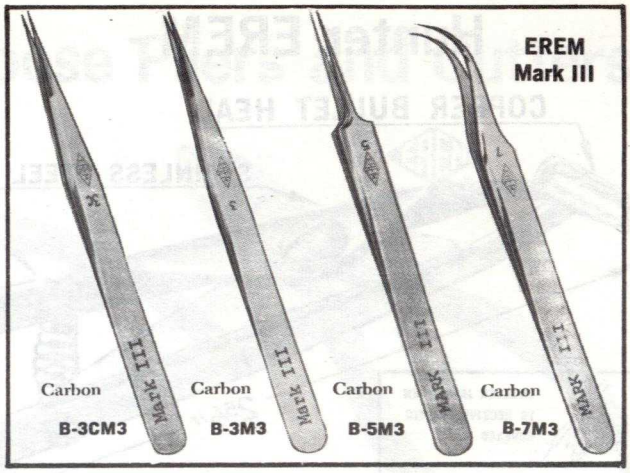


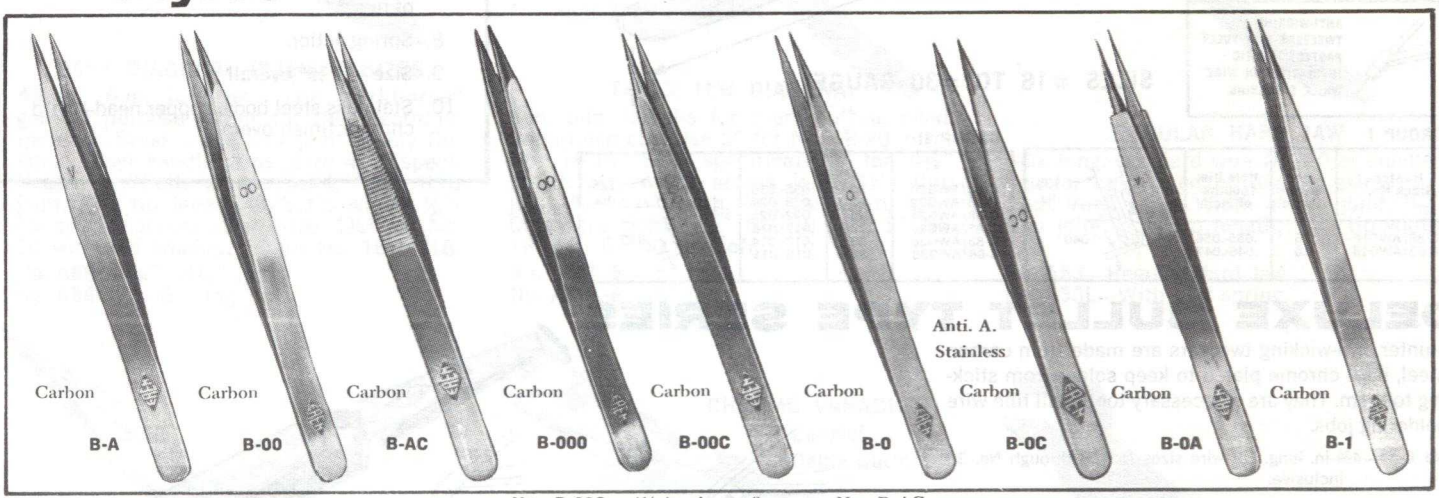
Produced For Electronics

- **Made in Most Wanted Dumont Styles.**
- **Made from Superior High Carbon Steel.**
- **Hand Fitted by Swiss Craftsmen With Over 30 Years Experience in making fine Tweezers.**
- **Points Guaranteed Parallel, Even and Sharp.**
- **Have Extreme Light Tension.**
- **New heat treat method on points, makes points safe from scratches by abrasives used in cleaning tweezers.**
- **Points stand up during use under processes where 535 degree centrigrade heat is applied.**

"Dumont" Styles

No. B-3CM3—4½-in. long. Fine points.
No. B-3M3—4½-in. long. Fine points.
No. B-5M3—4¼-in. long. Needle points.
No. B-7M3—4¼-in. long. Needle points.





No. B-A — 4½-in. long. Carbon steel. Heavy blade for working fine wire where pliers are too bulky.

No. B-00 — 4½-in. long. Carbon steel. Extra heavy blade for working with fine wire.

No. B-AC—4¼-in. long. Carbon steel. Medium duty blade. Outside serrated for better grip.

No. B-000—4½-in. long. Same as No. B-00 above, but has radius ground edges to prevent marring of wire in looping and bending operations.

No. B-00C — 4¼-in. long. Same as No. B-AC above but has no finger serrations on outside.

No. B-00D — 4½-in. long. Carbon steel. Extra heavy blade w/serrations for working with fine wire. Radius ground edges to prevent marring of wire in looping and bending operations.

No. B-0—4½-in. long. Carbon steel. Has heavy blades for working with fine wire.

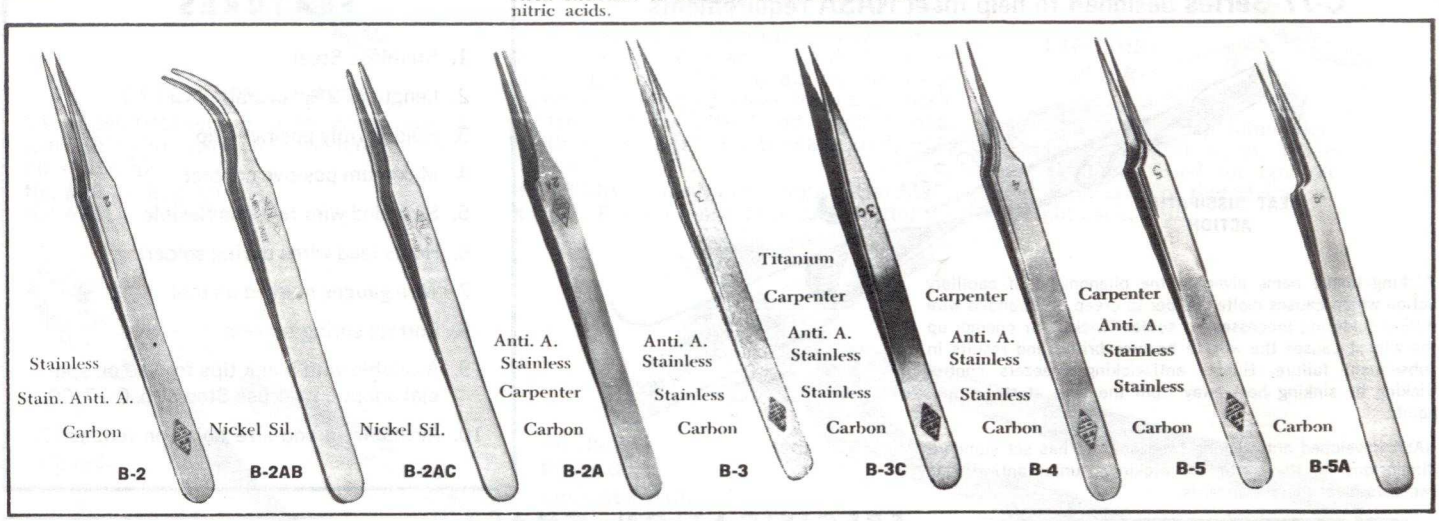
No. B-0C—3½-in. long. Carbon steel. For wire work.

No. B-0CSA—Same tweezer as No. B-0C but made from stainless, anti-acid, non-magnetic steel. Resistant to mixtures of hydrofluoric and nitric acids.

No. B-0A—4½-in. long. Carbon steel. Heavily made tool with specially ground precision points.

No. B-1—4½-in. long. Carbon steel. Regular points for general use, holding small parts.

Note: All stainless and anti-acid steel tweezers can be Teflon coated with 1½ mil coating 1½-in. up the tip. add "EF" to stock number if Teflon coating is wanted. Teflon coating makes tweezer points mirror smooth. Not recommended on fine points.



No. B-2—4½-in. long. Carbon steel. Medium points. For handling flat surfaces.

No. B-2SA—Same as No. B-2 but stainless, anti-acid, non-magnetic steel. Resists hydrofluoric and nitric acids.

No. B-2S—Same as No. B-2 but stainless steel.

No. B-2AB—4½-in. long. Nickel silver steel. For handling Germanium wafers.

No. B-2AC—4½-in. long. Nickel silver steel. For handling Germanium wafers.

No. B-2A—4½-in. long. Carbon steel. Most popular tweezer in the semi-conductor industry. Flat, spoonlike tips picks up and securely holds wafers.

No. B-2ASA—Same as No. B-2A but stainless, anti-acid, non-magnetic steel.

No. B-2ACA—Same as No. B2A but stainless steel — Carpenter No. 20. Non-magnetic, will resist acids. Stands high heat.

No. B-3—4½-in. long. Carbon steel. Fine points.

No. B-3S—Same as No. B-3 but stainless steel.

No. B-3SA—Same as No. B-3 but stainless, anti-acid. Resists hydrofluoric and nitric acids.

No. B-3C—4¼-in. long. Carbon steel.

No. B-3CN—4¼-in. long. Nickel silver.

No. B-3CS—Same as No. B-3C but stainless steel.

No. B-3CSA—As above but stainless, anti-acid.

No. B-3CCA—As above but Carpenter No. 20 steel. Stainless, acid-resistant, non-magnetic, heat resistant. Used in semi-conductor etching.

No. B-3CTA—As above but Titanium steel. Will not retain magnetism, resists temperatures to 1,000 degrees.

No. B-4—4½-in. long. Carbon steel, fine points.

No. B-4S—As above but stainless.

No. B-4SA—As above but stainless, anti-acid.

No. B-4CA — As above but Carpenter No. 20 steel. Magnetic acid and heat resisting.

No. B-5—4½-in. long. Carbon steel. Ex-fine points.

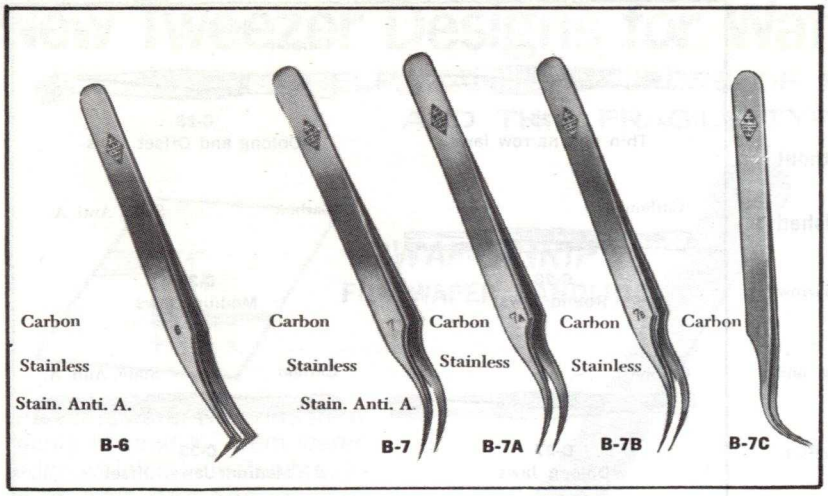
No. B-5S—As above but stainless steel.

No. B-5SA—As above but stainless, anti-acid.

No. B-5CA — As above but Carpenter No. 20 steel. Stainless, non-magnetic, acid and heat resisting.

No. B-5A—4½-in. long. Carbon steel. New point angle makes pickup easy.

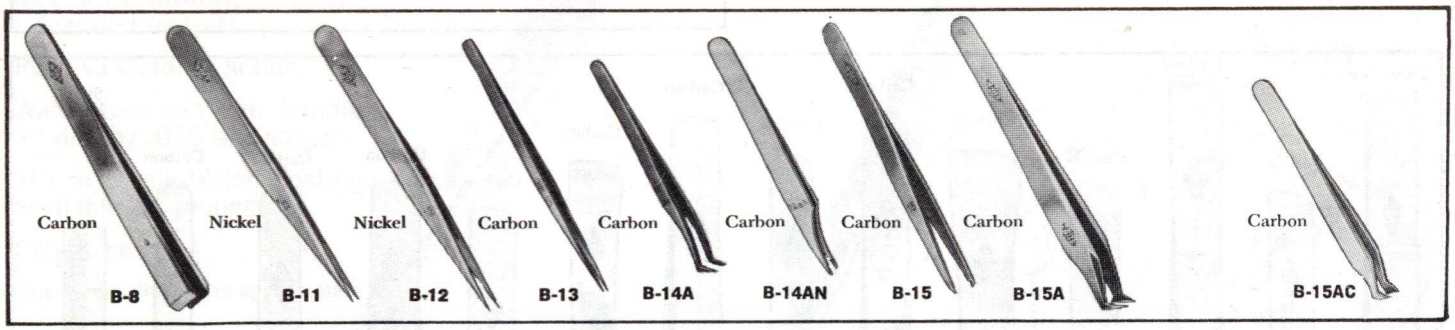
No. B-5B—4½-in. long. Carbon steel, Extra fine angle points.



"Dumont" Styles

Precision tools, made from fine steels by careful, experienced Swiss Craftsmen. All carefully hand finished and individually inspected.

No. B-6—4½-in. long. Carbon steel. For pickup.
No. B-6S—Same as above but stainless.
No. B-6SA—Same as above but stainless, anti-acid.
No. B-7—4½-in. long. Carbon steel.
No. B-7S—Same as above but stainless steel.
No. B-7SA—Same as above but stainless, anti-acid.
No. B-7A—4½-in. long. Carbon steel. Medium points.
No. B-7AS—Same as above but stainless steel.
No. B-7B—4½-in. long. Carbon steel. Serrated points.
No. B-7BS—Same as above but stainless steel.
No. B-7C—4¼-in. long. Carbon steel. Curved, fine point.
No. B-7CS—Same as above but stainless steel.



No. B-8—4½-in. long. Carbon steel. Blunt jaws.

No. B-11—4½-in. long. Nickel steel. Medium points. Non-magnetic.

No. B-12—4½-in. long. Nickel steel. Fine points. Non-magnetic.

No. B-13—4¾-in. long. Carbon steel. Long narrow tweezer, preferred by many users.

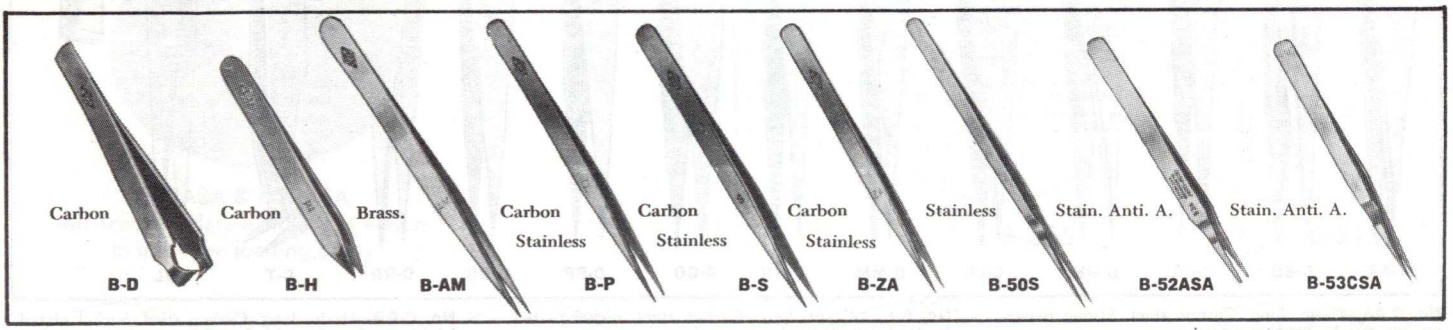
No. B-14A—4½-in. long. Carbon steel. Oblique cutting tweezer. Finest cutting blades available.

No. B-14AN—4½-in. long. Carbon steel. Cutting.

No. B-15—4¼-in. long. Carbon steel. Narrow-top cutting tweezer. Flush cut for magnetic wire stripping.

No. B-15A—4½-in. long. Carbon steel. Angle cutting. Flush cut.

No. B-15AC—4½-in. long. Carbon steel. Cutting.



No. B-D—4½-in. long. Carbon steel. Top flush cutting. For stripping magnetic and small wire.

No. B-H — 3½-in. long. Carbon steel. Short points. Strong.

No. B-AM—4½-in. long. Brass. Non-spark tweezer. Used where sparking might cause problems.

No. B-P —5-in. long. Carbon steel. Long, narrow. Fine points for fine work.

No. B-PS—Same as above but stainless steel.

No. B-S—5-in. long. Carbon steel. Long, narrow. Medium points for fine work.

No. B-SS—Same as above but stainless steel.

No. B-ZA — 4½-in. long. Carbon steel. Fine points.

No. B-ZAS—As above but stainless steel.

No. B-ZB—4½-in. long. Carbon steel. Medium points.

No. B-ZBS—Same as above but stainless steel.

No. B-50S—5-in. long. Stainless steel. Long, narrow tweezer in crush-proof design with original 13 shape, long and narrow.

No. B-52ASA—4½-in. long. Stainless anti-acid steel. New crush-proof design with original 2ASA shape. Flat spoonlike tips.

No. B-53CSA—4¼-in. long. Stainless anti acid steel. New crush proof design, with original 3CSA shape. Fine points.

Note: Points of stainless and anti-acid steel tweezers may be Teflon coated for extreme smoothness. See facing page. Teflon coating is not recommended for fine point tweezers.

To Help You Identify the Steel Each Tweezer is Available in . . .

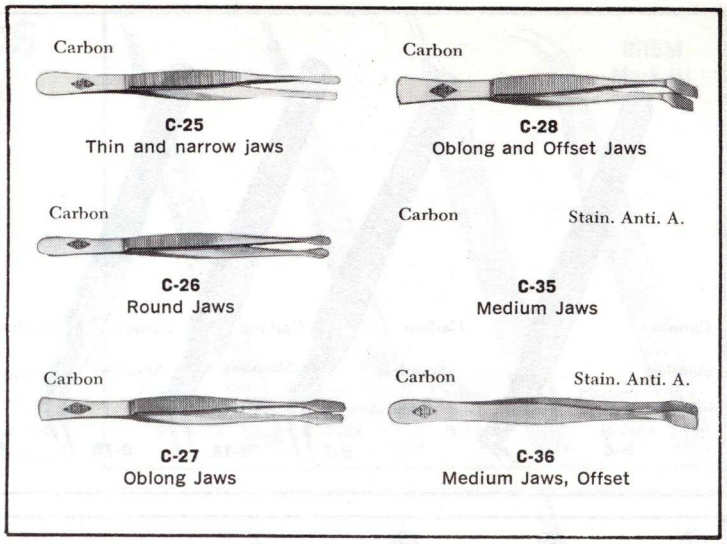
Carbon..... **High Grade Carbon Steel for General Purpose Use . . .**
Stainless..... **High Grade Stainless Steel (Low Magnetism).**
Stainless Anti-Acid..... **Special Stainless Anti-Magnetic, Anti-Acid, Resists Hydrofluoric and Nitric Acid.**
Carpenter..... **Carpenter No. 20 Stainless Non-Magnetic, Anti-Acid and Resists Moderate Heat . . .**
Titanium..... **Titanium Steel will not Retain Magnetism, Resists Temperature to 1000 Degrees.**
Nickel Silver..... **Nickel Silver Non-Magnetic, Soft Non Scratching.**
Brass..... **Non-Sparking Material, Non-Magnetic.**

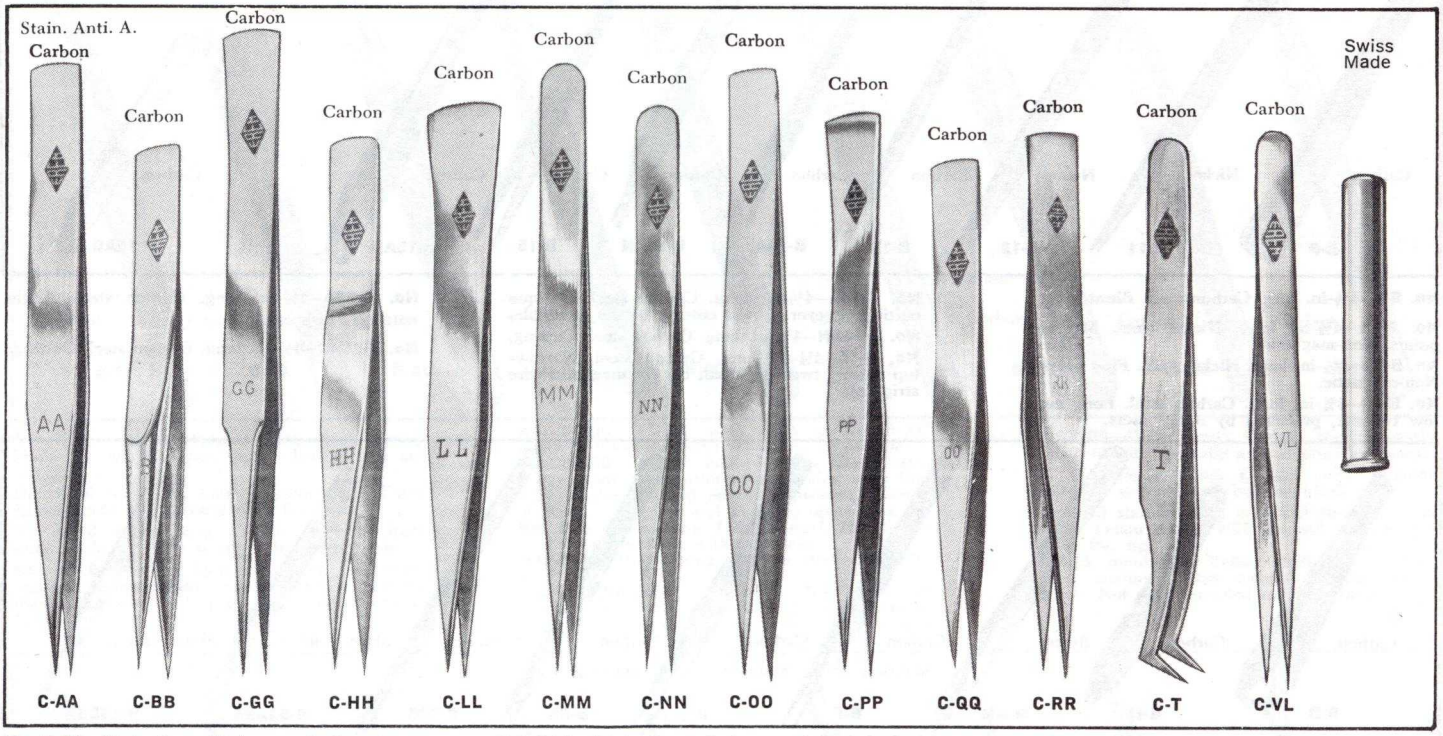
Hunter Has the Largest 'Shelf Stock' of Tweezers Available in U.S.A.

Semi-Conductor Tweezers

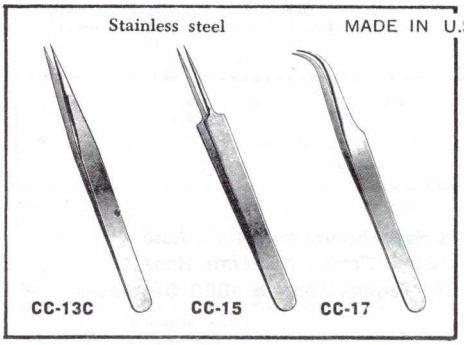
- **Smooth, large surface gives user positive grip without danger of breakage or scratching.**
- **Mirror smooth finish will not mar or scratch polished surfaces of thin, brittle wafers.**

No. C-25—4¾-in. long. Carbon steel, nickel plated. Thin and narrow jaws.
No. C-26—4½-in. long. Carbon steel, nickel plated. Round jaws.
No. C-27—4½-in. long. Carbon steel, nickel plated. Oblong jaws.
No. C-28—4-in. long. Carbon steel, nickel plated. Jaws oblong and offset.
No. C-35—4¾-in. long. Carbon steel, nickel plated. Medium jaws.
No. C-35ASA—Same as above but stainless, anti-acid steel.
No. C-36—4¾-in. long. Carbon steel, nickel plated. Medium jaws, offset.
No. C-36ASA—Same as above but stainless, anti-acid steel.



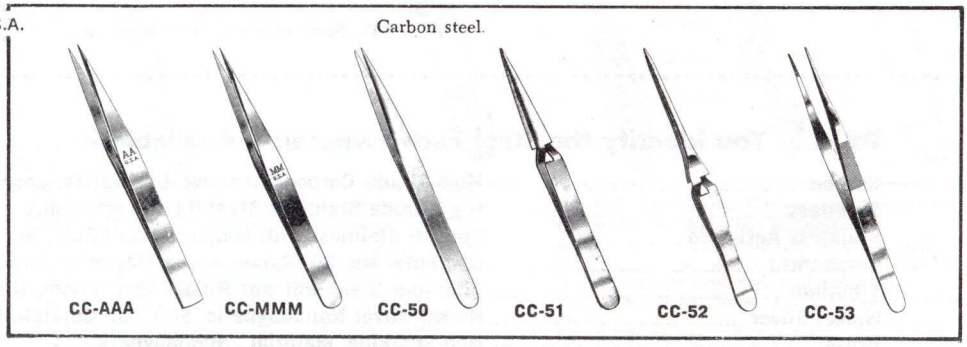


No. C-AA—4¾-in. long. Carbon steel. Strong tweezer, fine points, beveled edges.
No. C-AASA—Same as above but stainless, anti-acid.
No. C-BB—4½-in. long. Carbon steel, nickel plated. Hollow center, very light, fine points.
No. C-GG—5-in. long. Carbon steel. Nickel plated. Heavy duty. Tapered fine points.
No. C-HH—4½-in. long. Carbon steel nickel plated. Heavy blade and tension. Strong, fine points.
No. C-LL—4½-in. long. Carbon steel, nickel plated. Rugged, strong blade, fine points.
No. C-MM – 4¾-in. long. Carbon steel. Nickel plated. Ex-long strong blade, fine beveled point. For assembly.
No. C-NN—4½-in. long. Carbon steel. Nickel plated. Medium heavy. Fine points. Beveled edges.
No. C-OO—4½-in. long. Carbon steel. Nickel plated. Medium weight. Beveled fine points.
No. C-PP—4¼-in. long. Carbon steel. Nickel plated. Medium weight, short blade, fine rounded points.
No. C-QQ—4¼-in. long. Carbon steel. Nickel plated. Light weight, short blades, fine rounded points.
No. C-RR—5½-in. long. Carbon steel. Nickel plated. Large, heavy-duty. Medium-fine, long beveled points.
No. C-T—4½-in. long. Carbon steel. Nickel plated. Medium heavy. Fine angled points.
No. C-VL—4½-in. long. Carbon steel. Short blades, medium points. With cap, can be carried in pocket.



Low Price Dumont Facsimilies

No. CC-13C—4¼-in. long. (#3C style.) Stainless steel. Long narrow tweezer.
No. CC-15—4¼-in. long. (#5 style.) Stainless steel. With needle points.
No. CC-17—4¼-in. long. (#7 style.) Stainless steel. With curved points.

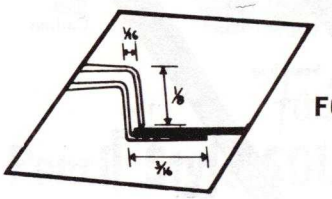


Low Price Boley Style Tweezers, Fine Points, Commercial Tolerances

No. CC-AAA—4¼-in. long (AA style.) Carbon steel. Strong tweezer with fine points.
No. CC-MMM – 4¼-in. long. (MM style.) Carbon steel. Similar to No. CC-AAA but slimmer.
No. CC-50—4¼-in. long. Carbon steel, nickel plated.
No. CC-51—4¼-in. long. Carbon steel, nickel plated. Reverse tension tweezer for holding.
No. CC-52—6-in. long. Carbon steel, nickel plated. Big reverse tension tweezer.
No. CC-53—6¼-in. long. Carbon steel, nickel plated. Big general purpose tool, strong.

New Tweezer Designs for Wafer and Dice Handling

TO HELP MANUFACTURERS OF SEMICONDUCTORS
AND THIN FRAGILE TYPE UNITS



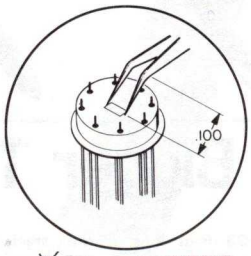
"WAF-O-GRIP"
FOR WAFER HANDLING

- Prevents wafer tweezers from going beyond 1/16" from wafer edge, which eliminates breakage and damage of the Integrated circuits.
- Positive Holding Action.
- Wafer tweezers will handle 2" dia. by .010 and larger.
- 1½ to 5 mil Teflon coating available on request.
- Patent pending

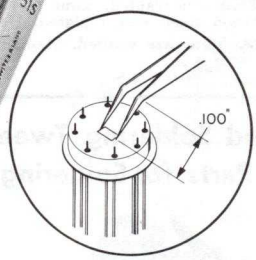
All dimensions shown are approximate

B-62ASA & B-72ASA
will accommodate handling of wafers
in tray type loading boats

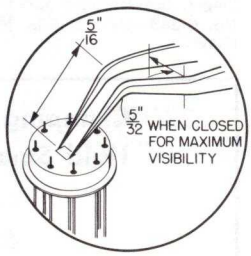
"EASY-GRIP"
FOR DIE ATTACHING



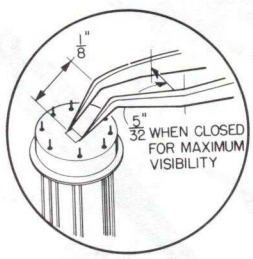
B-3CBS



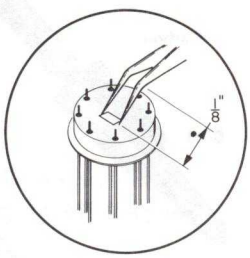
B-65AS



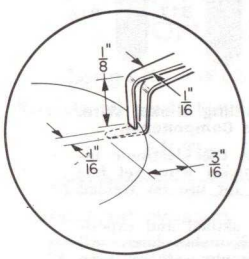
B-5CS



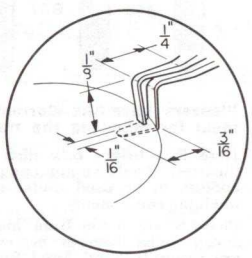
B-66S



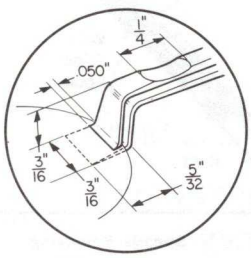
B-51S



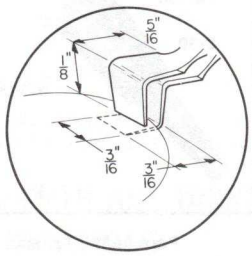
B-62ASA



B-72ASA

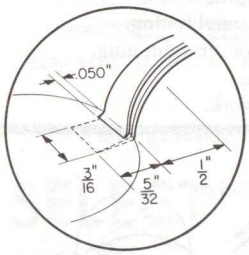


B-85 BSA



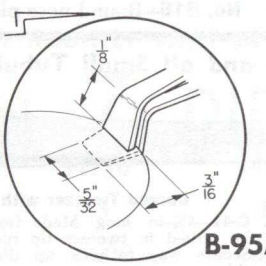
B-86ASA

All dimensions shown are approximate

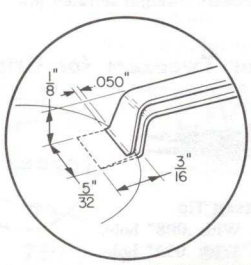


B-87 BSA

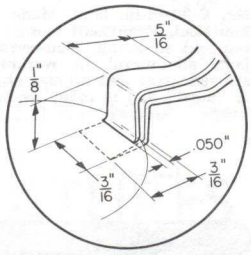
B-85ASA



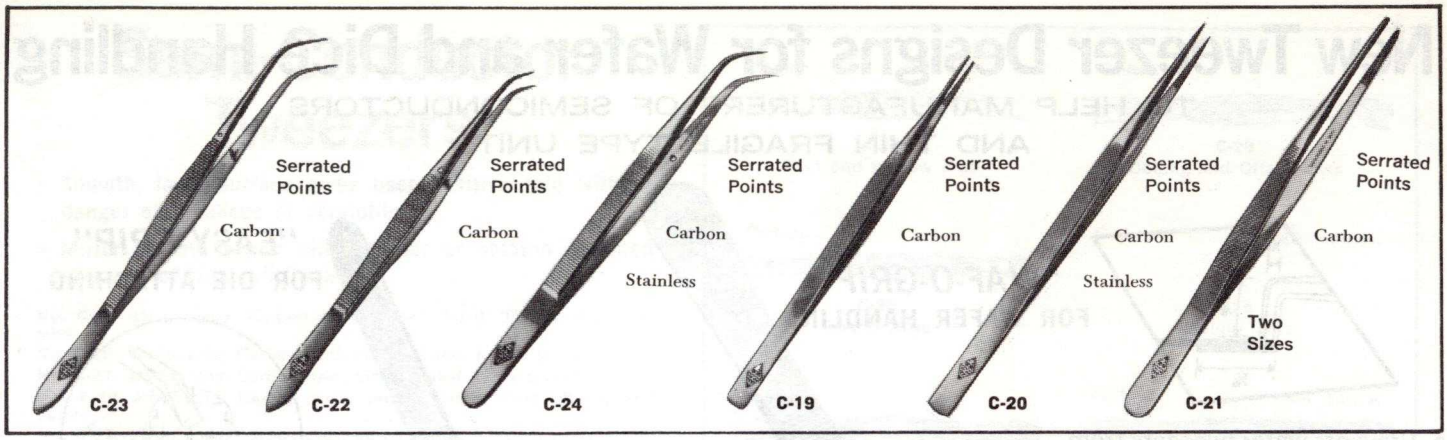
B-95ASA



B-85 CSA



B-86 BSA



Bigger Tweezers for Various Assembly Jobs

No. C-23—6-in. long. Carbon steel, nickel plated. Narrow tweezer with medium offset points for pickup work in assembly.

No. C-22—6-in. long. Carbon steel, nickel plated. Offset serrated points. With guide pin to keep tips aligned.

No. C-24—6 and 8-in. lengths. State size wanted. Same as No. C-22 above but longer, heavier offset points. Carbon steel, nickel plated. Has alignment pin.

No. C-24S—4½ and 6-in. lengths. State size wanted. Stainless steel. Similar to above.

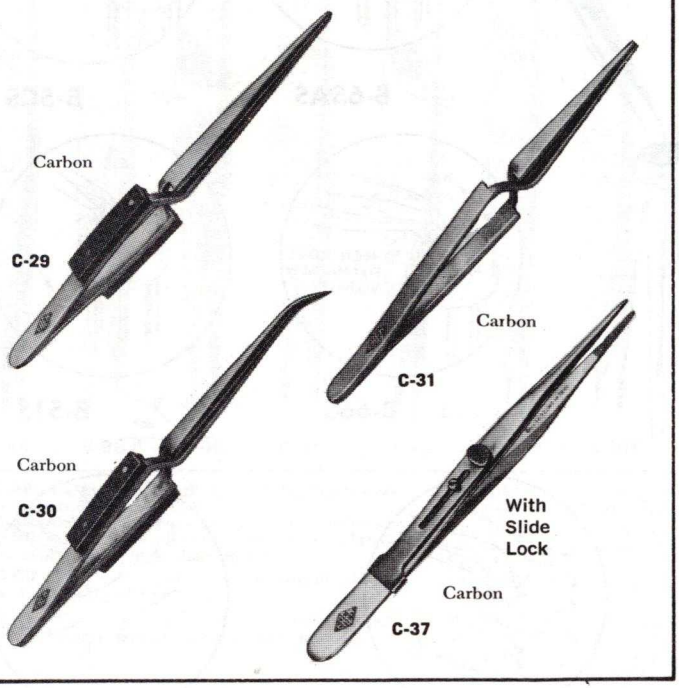
No. C-19—6¼-in. long. Carbon steel, nickel plated. With fine serrated points for assembly work.

No. C-20—5½-in. long. Carbon steel, nickel plated. With medium serrated points.

No. C-20S—4½-in. long. Similar to above but stainless steel.

No. C-21—6¼ and 8-in. lengths. State length wanted. Carbon steel, nickel plated. Large tweezer with large serrated points useful in many assembly jobs.

Clamping and Soldering Tweezers Hold Small Parts for Soldering



Permanent Tension

No. C-29—6-in. long. Made from carbon steel. Has permanent tension for holding parts. Ideal tool for use in soldering in electronic assembly. Has non-serrated, straight jaws.

No. C-30—6-in. long. Made from carbon steel. Permanent tension for holding and soldering. Non-serrated offset jaws are useful in working in restricted areas and around obstructions. A "must" tool in many assemblies.

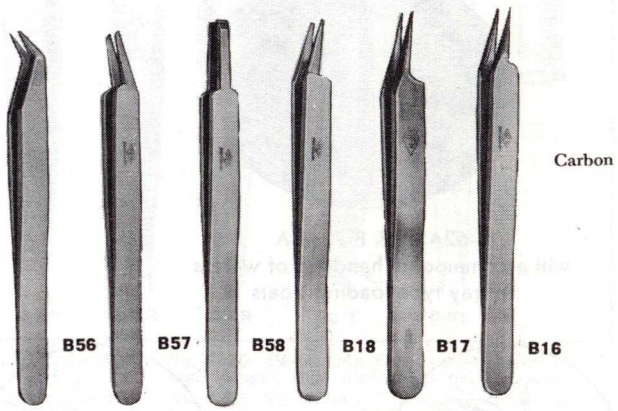
Speeds Soldering

No. C-31—4½-in. long. Made of carbon steel, nickel plated. Has permanent tension for holding and clamping small materials for soldering. Small size useful in restricted areas. Straight non-serrated jaw.

No. C-37—5½-in. long. Made of Carbon steel, nickel plated. For clamping during soldering. One hand operation, slide button forward and tweezer stays locked. Straight serrated jaw.

New! Pleezers!

Not a Plier! Not a Tweezer! But a New Idea in Tools for the Electronics Industry. Combines the Good Qualities of both Pliers and Tweezers into One Tool!



Pleezers have the Correct Torque for Handling Nickel Wire. Ideal for following the tracings on Modular Components.

Here is a bright new idea in tools for use in the electronic industries. Tools strong enough to cope with nickel wire, yet fine enough to be used under microscopes. Ideal for use on welded modular components.

Pleezers are made from high carbon steel by skilled and experienced Swiss tweezer craftsmen. They are 4¾-inches long. All are carefully hand fitted for exact match of points — there is no finer tool workmanship anywhere. Packed units of 1.

No. B56—Angle nose pleezer for close shaping.
No. B57—Flat nose pleezer for close shaping.
No. B58—Straight flat nose pleezer for straightening.
No. B18—Flat nose pleezer for shaping or straightening.
No. B17—Chain nose pleezer for forming.
No. B16—Round nose pleezer for loop work.

Hunter Tweezers for Gripping Wire and all Small Tubular Parts

Straight Tweezer — Recessed Tip

No. C-38—4½-in. long. Carbon steel. With .008" hole.
No. C-39—4½-in. long. Carbon steel. With .012" hole.
No. C-40—4½-in. long. Carbon steel. With .015" hole.

Curved Tweezer with Tip Slot

No. C-41—4½-in. long. Made from carbon steel. Has ¼" slot milled in tweezer tip running back from the tip. Secure way to pick up disc shape objects for assembly.

THE NEW KWIKIE

Featherlite

Pencil Style SOLDERING IRONS

FOR FAST PRODUCTION WORK

Throughout the country, plant after plant is standardizing on the new 4000 series Kwikie Pencil soldering irons. Industrial engineers, methods engineers, production foremen, quality control chiefs, technicians and value engineering groups all marvel at the outstanding performance of this new Kwikie . . . and immediately recognize the versatility by which any one of the 7 new irons can meet their exacting demands.

This newest Kwikie meets all the NASA requirements and has been used continually in NASA and space contractor's certification schools and production lines. Because of the broad range of tips and temperatures, the irons are currently being used on all types of commercial production lines where performance and speed counts.

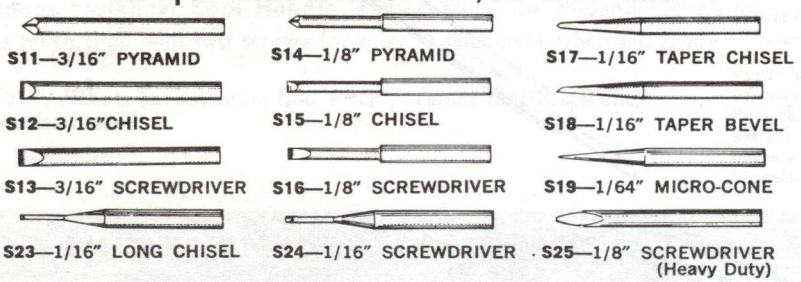
Element and tip life expectancy is excellent, providing greatly reduced costs annually, with big savings at each production station. **K-KLAD** (iron-plated) tips are definitely recommended for the higher temperature irons, and will provide long service. The new **K-KLAD Immunized** tips should be used in plants where normal daily tip removal is not always possible, thus reducing tip seizure.

The one word best describing the Kwikie irons is *efficiency*. The true measure of a soldering iron is its heat recovery . . . the ability to recover maximum heat in a minimum time, a necessity in continuous soldering. This is where the Kwikie excells over all interchangeable tip type pencil soldering irons. This High Performance has created an ever increasing list of satisfied industrial users.

POPULAR INTERCHANGEABLE TIP STYLES

Long Life K-KLAD (Iron Plated) . . . Immunized K-KLAD (Freeze Resistant) and Standard Copper **Caution: Do Not File K-Klad Tips**

All Tips Available with 30° 45°, 60° or 90° Bend

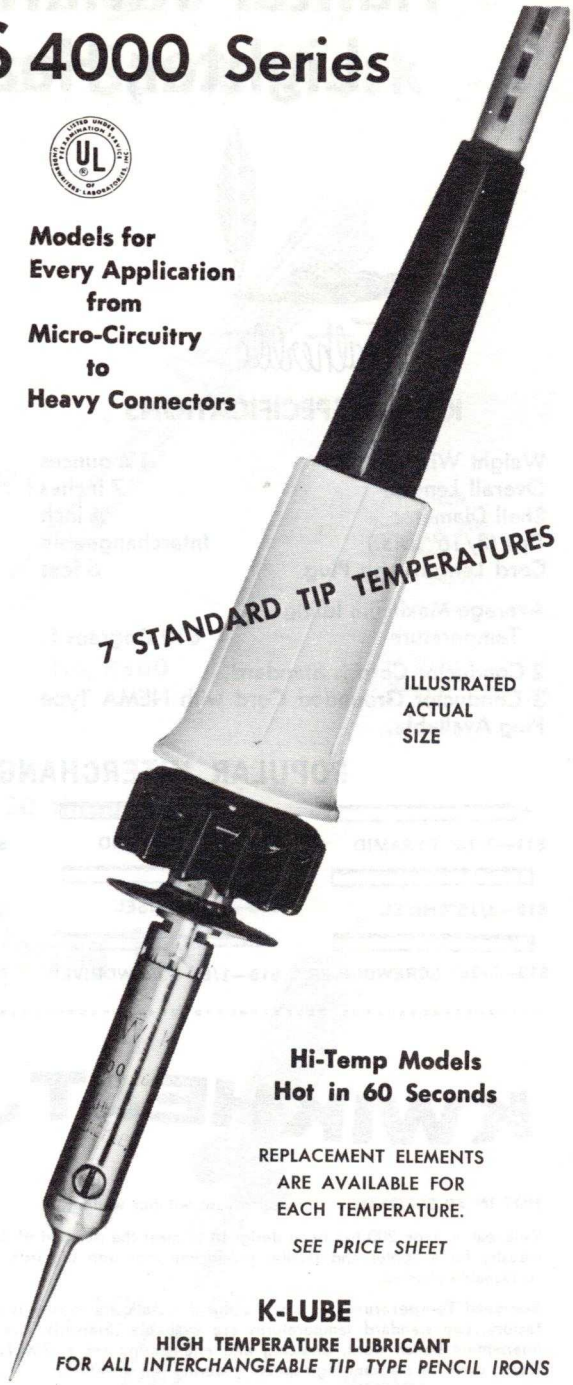


S11—3/16" PYRAMID
S14—1/8" PYRAMID
S17—1/16" TAPER CHISEL
S12—3/16"CHISEL
S15—1/8" CHISEL
S18—1/16" TAPER BEVEL
S13—3/16" SCREWDRIVER
S16—1/8" SCREWDRIVER
S19—1/64" MICRO-CONE
S23—1/16" LONG CHISEL
S24—1/16" SCREWDRIVER
S25—1/8" SCREWDRIVER (Heavy Duty)

TEMPERATURES WILL VARY SLIGHTLY WITH TIP STYLES

S 4000 Series

Models for Every Application from Micro-Circuitry to Heavy Connectors



7 STANDARD TIP TEMPERATURES

ILLUSTRATED ACTUAL SIZE

Hi-Temp Models Hot in 60 Seconds

REPLACEMENT ELEMENTS ARE AVAILABLE FOR EACH TEMPERATURE.

SEE PRICE SHEET

K-LUBE

HIGH TEMPERATURE LUBRICANT

FOR ALL INTERCHANGEABLE TIP TYPE PENCIL IRONS

TIPS NOT INCLUDED WITH ANY IRONS

KWIKIE SPECIFICATIONS

Weight With Tip	1¾ ounces
Overall Length	7 inches
Shell Diameter	⅜ inch
Tips (3/16" Dia.)	Interchangeable
Cord Length with Plug	6 feet

2 Conductor Cord is Standard.
3 Conductor Grounded Cord with NEMA Type Plug Available.

SELECT FROM 7 DIFFERENT TEMPERATURES

MODEL NO.	S4100	S4150	S4200	S4250	S4300	S4350	S4400
WATTAGE	10	15	20	25	30	35	40
TIP TEMPERATURE	450°	550°	650°	750°	800°	850°	950°

ALL TEMPERATURES RATED AT 115-V. AC.

Hunter 'KwikHeat' Industrial Irons Are Lighter, Heat Faster, Last Longer

Featherlite

KWIKIE SPECIFICATIONS

Weight With Tip	1¾ ounces
Overall Length	7 inches
Shell Diameter	⅜ inch
Tips (3/16" Dia.)	Interchangeable
Cord Length with Plug	6 feet
Average Maximum Idling Temperature	810 Degrees F.

2 Conductor Cord is Standard.
3 Conductor Grounded Cord with NEMA Type Plug Available.

Pencil Style FOR FAST PRODUCTION WORK

Instant Response . . . is "built-in" to the new Kwikie which improves work quality, reduces rejects and speeds up production. Unexcelled in efficiency of comparable interchangeable tip type pencil irons, the 4725 Kwikie is LOW IN PRICE.

25 Watts
Quick Recovery

No. S4725

POPULAR INTERCHANGEABLE TIP STYLES

S11—3/16" PYRAMID

S14—1/8" PYRAMID

S17—1/16" TAPER CHISEL

S23—1/16" LONG CHISEL

S12—3/16"CHISEL

S15—1/8" CHISEL

S18—1/16" TAPER BEVEL

S24—1/16" SCREWDRIVER

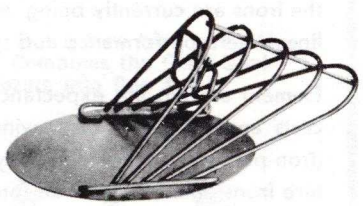
S13—3/16" SCREWDRIVER

S16—1/8" SCREWDRIVER

S19—1/64" MICRO-CONE

S25—1/8" SCREWDRIVER (Heavy Duty)

IRON HOLDER



No. S4052

KWIKHEAT JR.

THERMOSTATICALLY CONTROLLED SOLDERING IRON

HOT IN 80 SECONDS . . . ready to use without waiting.

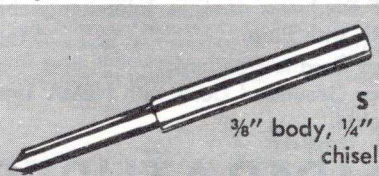
Kwikheat Jr. type 200 has been designed to meet the demand of the electronics industry for a lighter and smaller production tool with big iron capacity and replaceable element.

Standard Temperatures . . . while the automatic thermostat is preset at the factory, two standard temperatures are available. **Stand-by Irons,** used for intermittent bench work, servicing and engineering set at 700°F; **Production Irons,** used for constant high-speed soldering, set at 800°F.

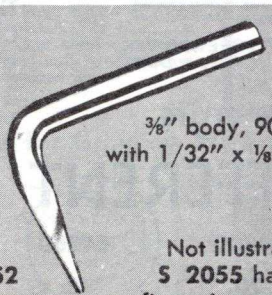
Any temperature from 250°F to 850°F can be specified, at slight extra charge to provide the user with an exacting temperature for particular applications.

4 interchangeable plunger type tips . . . large heat storage of ⅜" body conducts element heat direct to the working tips. Special plating on standard copper tips resists corrosion. Long life **K-Klad** (iron plated) tips available all styles and recommended for higher temperatures. It is important not to file the **K-Klad tips** as this limits service life. Tips should be fully inserted in the element cavity for complete temperature control as well as avoiding possible element damage.

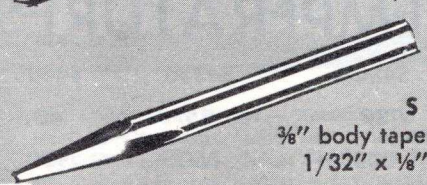
$200 for Fast-Medium Production



S 2051
⅜" body, ¼" shank, chisel point.



S 2053
⅜" body, 90° bend with 1/32" x ⅛" point.



S 2052
⅜" body tapering to 1/32" x ⅛" point.

Not illustrated
S 2055 has same configuration as No. 2051 only has 3/16" shank

SPECIFICATIONS

Weight with tip and stand	7½ oz.
Length with tip	12¾ in.
Watts	150
Volts, A.C. only	100-125
Length of cord with plug	6 ft.

2 Conductor Cord — Standard
2 Conductor Grounded Cord with NEMA Type Plug Available.

Hunter's KwikHeat S300 Weighs Only 1/3 of Other Irons-Capable of Same Work

THERMOSTATICALLY CONTROLLED SOLDERING IRON

HEATS UP FAST . . . HOT IN 90 SECONDS . . . has built-in factory pre-set automatic thermostat. Standard settings of 700°F for intermittent or standby work, and 800°F for fast continuous production soldering. Any other temperature may be specified from 250°F to 850°F to meet today's special applications. A slight charge is added for special settings.

Kwikheat No. 300 has a forged tellurium copper alloy long life heater element for maximum heat transfer and recovery, and elements can be changed readily in the field when necessary.

INTERCHANGEABLE SCREW-TYPE TIPS
For Every Production Need

Kwikheat tips are of forged tellurium copper alloy with corrosion resistant plating, excepting the No. 5 dip pot, which is an iron casting. The tips are screw-in type, with heavy threads and special bevelled shoulders provide maximum heat transfer from within the forged tellurium copper alloy core of the soldering iron. The broad tip selection enables the user to shape tips to any configuration to meet most exacting needs. All Kwikheat tips are available in K-Klad (iron plated) finish for extended service life. Caution: Do not file K-Klad tips as this will limit service life.

OUR BEST SELLER!

No. S300

KWIKHEAT
Type S 300
For
Fast/Heavy
Production

225 Watts —
115 Volts AC only

For selection of tips, see below — Series S0 through S10

Temperature Controlled Soldering Iron

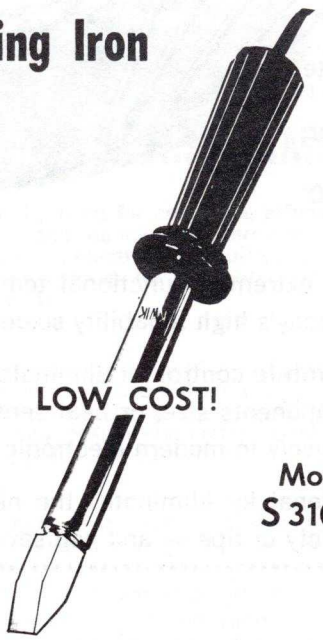
New . . . powerful element design in this rugged Model 3100 Kwikwork soldering iron provides industry with a dependable tool at a very low cost.

Automatic temperature actuated control has no moving parts . . . temperature won't creep up . . . provides constant 850°F temperature by automatically increasing or decreasing wattage from 75 watts to 225 watts as necessary.

Lightweight, yet handles heavy production work with ease as it is designed for day-in and day-out continuous or intermittent production soldering.

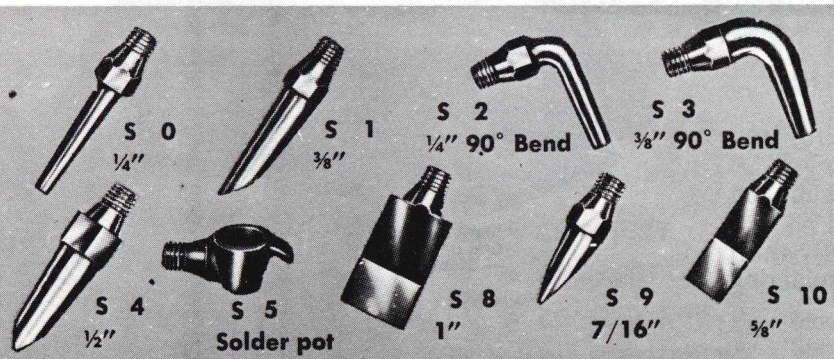
Famous Kwikheat Cool Handle is attached to the dependable element and one piece shell with two screws for easy replacement when necessary.

Fast . . . heats to maximum 850°F temperature in 100 seconds.



LOW COST!

Model S 3100



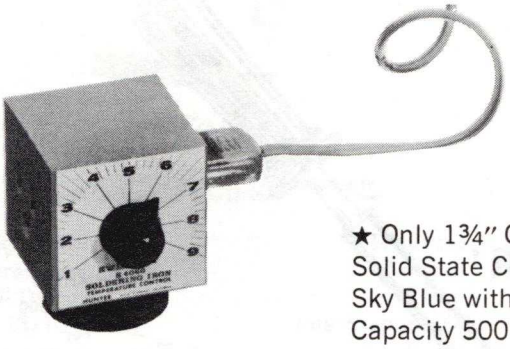
SPECIFICATIONS

Weight of Iron with No. 1 Tip	14 oz.
Length of Iron with Tip	13 in.
Length of Heater Cord	6 ft.

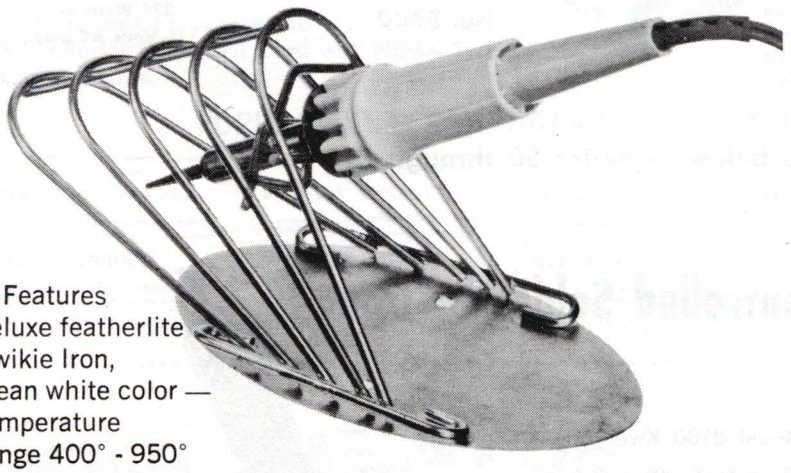
2 Conductor Cord — Standard
3 Conductor Grounded Cord
With NEMA Type Plug Available

Our NEW Soldering Iron Temperature Control Kit.....

designed to help meet NASA requirements



★ Only 1¾" Cube
Solid State Circuitry
Sky Blue with White Dial
Capacity 500 Watts



★ Features deluxe featherlite Kwikie Iron, clean white color — temperature range 400° - 950°

This handsome extremely functional temperature control kit is the answer to today's **high** reliability soldering problems.

This one temperature control kit eliminates problems caused by: variance of components size, or heat sensitive components that are used extensively in modern electronic systems . . .

This one functional kit eliminates the need for a multitude of irons and a variety of tips — and will save you time and money!

THIS ONE KIT GIVES YOU TEMPERATURE CONTROL FROM 400° TO 950°

Stock #S4060CK

Soldering Irons control kit helps you keep pace with changing production line demands.

One outlet of soldering iron control gives you controlled voltage output, other side line voltage.

Controlled voltage outlet gives you smooth, progressive temperature changes.

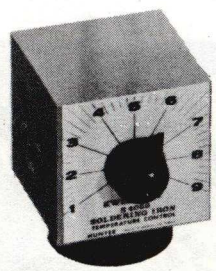
- Kit consist of:

1—S4060 control, 1—S4400 solder iron, 1—S17K long life iron clad tip, 1—S4052 holder. Standard package one kit to box.

VOLTAGE CONTROL REGULATOR TO CONTROL SOLDERING TEMPERATURE

CONTROL ONLY

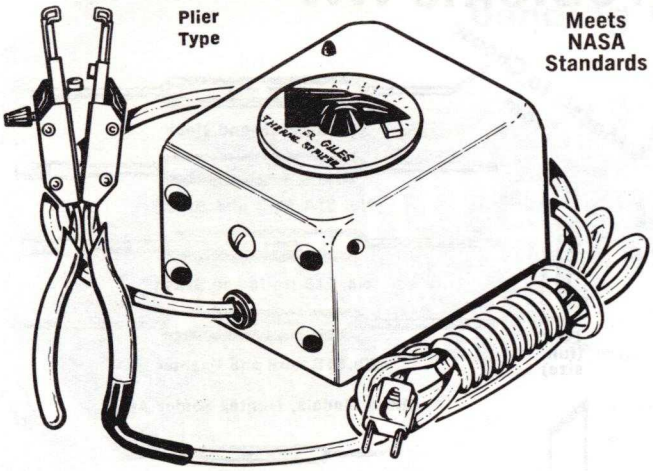
- ✓ Will control any soldering iron currently being used.
- ✓ Most compact unit (1¾" cube) on the market.
- ✓ Converts your standard pencil iron into a high reliability soldering unit.



Standard Package
One unit to a box
— **Stock #S4060**

Thermal Wire Strippers–Do Your Job Fast, Easy!

DESIGNED TO DO HIGH RELIABILITY STRIPPING . . . HELPS WORK MEET RIGID NASA REQUIREMENTS



The light weight, plier-like design gives this model a familiar feel, and the long, slim nose makes it convenient for those hard to reach wires . . .

- Silver Electrodes eliminate oxidation – give long life.
- Nichrome wire, silver leads, give ideal current connection and conduction. Nichrome section ductile enough to shape for large range of wire sizes.
- All controls, except cord connections are silver soldered.
- Filaments function at maximum heat until worn thru.

Standard Control Box with Plier Type Stripper

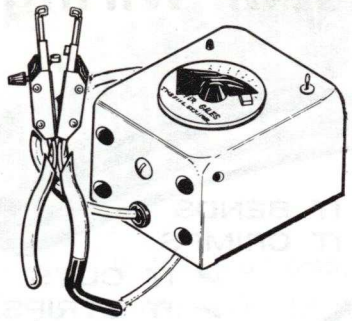
Plier is 8-in. long, ½-in. wide at tip, 2½-in. wide at handle. ⅞-in. thick with 36-in. cord. Plier stripper weighs only 8 oz., total unit weighs only 3 lbs. Ideal for research and development work. For firms manufacturing instrumentation, aircraft, missiles, radar, computing systems, radio, television and similar sophisticated products.

No. 80—Standard control box, plier type wire stripper.

No. 80C—Same as above but with heavy duty (3-wire) cord and ground.

No. 80D—Plier type stripper and cord only.

No. 80A—Replacement filaments for plier type stripper.

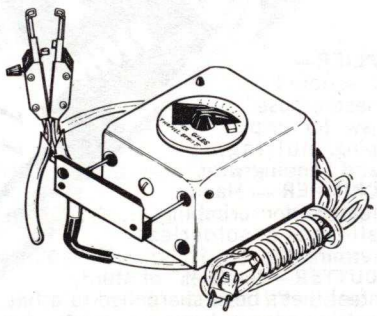


Standard Control Box With Off-On Switch, Plier Stripper

Good unit where use is intermittant. Off-on switch gives operator control over unit.

No. 80F—Same as No. 80 unit above, has all of the same quality features plus the wanted Off-On switch.

No. 80F-1—Same as unit No. 80F but has heavy duty (3-wire) cord and ground.



Standard Control Box With Cradle Switch, Plier Stripper

Very convenient unit for assembly work. Requires no manual turning on and off of current.

No. 80G—Same as No. 80 unit but with convenient cradle type switch liked by assemblers.

No. 80G-1 – Same as unit No. 80G but has heavy duty (3-wire) cord and ground.

Accessories and Replacement Parts

No. 80A

No. 80B—Foot petal on and off switch, fits all units on this page.

No. 80E—Replacement cord for plier type hand piece.

No. 80H—Replacement formica stripping plates. Fits all strippers on this page.

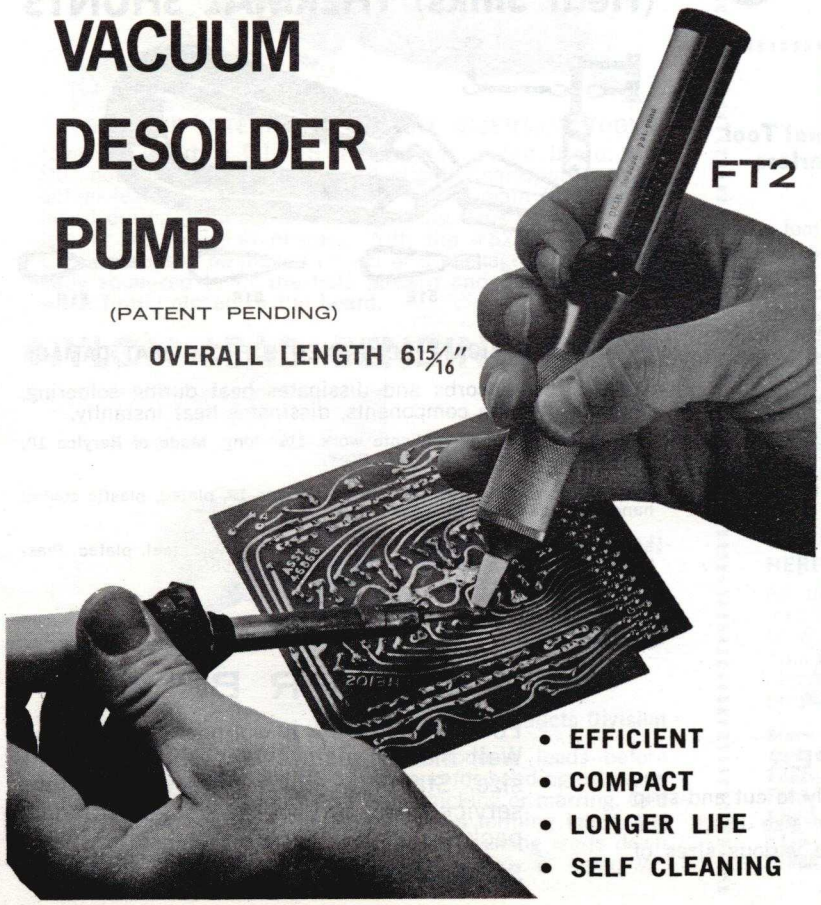
DESIGNED TO DO HIGH RELIABILITY STRIPPING . . . HELPS WORK MEET RIGID NASA REQUIREMENTS

VACUUM DESOLDER PUMP

FT2

(PATENT PENDING)

OVERALL LENGTH 6 15/16"



- EFFICIENT
- COMPACT
- LONGER LIFE
- SELF CLEANING

USAGE

This tool may be used for complete, efficient desoldering of pin terminals and connectors, terminal strips, and component leads from electronic circuitry. It also may be used as a miniature vacuum for removal of foreign particles in female receptacles.

DESIGN

The exclusive Swedish design (Patent Pending), spring-loaded stroke, and convenient size will increase efficiency and speed production. Superior suction is produced by this new unique design. This new design eliminates operating hazards. FT2 will not catch you in the eye.

FEATURES

(A) The main body of this tool is constructed of sturdy, lightweight aluminum for long life. The finish is an attractive gold color.

(B) Solid piston for increased desoldering ability.

(C) Easy storage. It's just the right size for a tool box. OVERALL LENGTH 6 15/16" loaded or unloaded.

(D) This tool may be loaded and unloaded with one hand. No more wasted motion as with other brands. There is no need to have this tool in any special position in order to load it.

(E) Care and maintenance are reduced to a minimum. Because of the simple construction (ONLY 3 SEPARATE PIECES) you don't have to be a mechanic with a handful of drawings to disassemble the FT2 for periodic cleaning and lubrication.

(F) The FT2 is always ready to use. The construction is such that the tip is cleared of any solidified solder each time the pump is loaded for use.

(G) The tip is replaceable. It is made of low resistance Teflon for long life.

Stock No. FT2—Vacuum Desolder Pump.

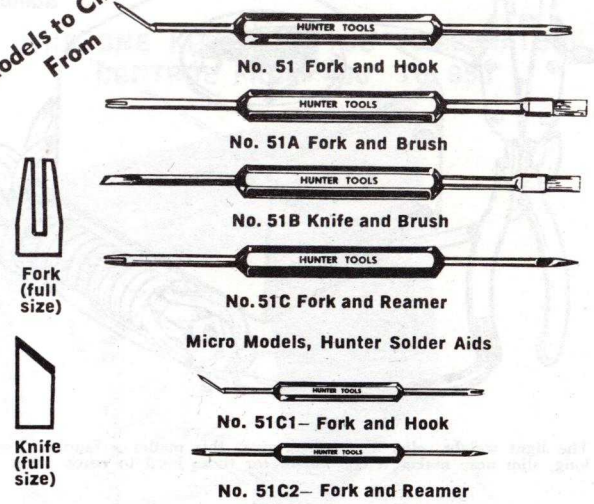
Stock No. FT2-1—Replacement Tip.

Hunter Stripping, Soldering Tools Help Solve Your Wiring Problems ....

PLIKE
4-in-1 Tool

PLIER—A serrated needle nose jaw for gripping, pulling, and bending wire.
CRIMPER — Handy feature for crimping all types of solderless terminals.
CUTTER—Here's ⅜" of sturdy steel that's been sharpened to a fine cutting edge to handle a variety of wire sizes.
STRIPPER—Six convenient holes for stripping AWG solid wires in gages 12 through 22 and stranded wires 14 through 24.
HIGH CARBON STEEL—Fully heat treated for your assurance of a sturdy, long lasting tool with rust resistant black oxide finish.
6½" long in a simple, modern design. For use in the shop, in the home, or in the service center, or on the assembly line . . . a versatile, convenient 4-in-1 tool! **STOCK No. 55**

6 Models to Choose From



HUNTER SOLDERING AIDS — NON-MAGNETIC STEEL BLADES

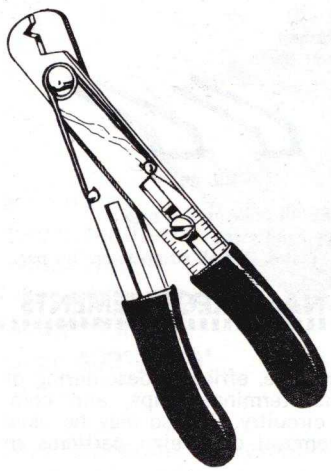
Blades of non-magnetic steel to which solder won't adhere; firmly set into plastic handle. Black colored plastic handle; hex shaped, won't roll off bench.

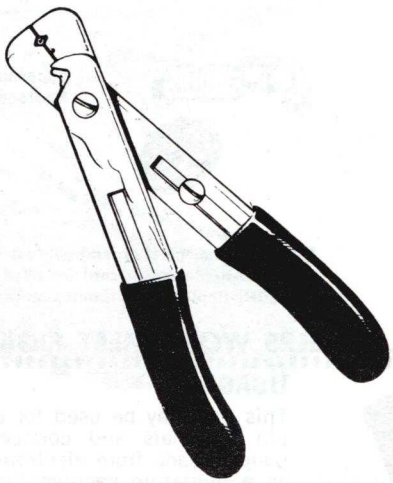
Models available with:
Forked end: Straddles wire for looping, coiling, bending or guiding.
Reamer: Cleans lug holes, deburrs.
Hook: Probe for loose circuits.
Knife-scraper: Removes surplus solder.
Brush: Cleans solder connections.

Handy tools to aid in soldering. Designed with production workers in mind. Standard pack 10; weight .7 pound.

Regular Models
Overall length, 8 inches; hex handle size, ⅜ x 4"; blades 5/32 x 2".
No. 51 – Fork and Hook.
No. 51A–Fork and Brush.
No. 51B–Knife and Brush.
No. 51C–Fork and Reamer.

Micro Models, Hunter Solder Aids
Very small size for sub-miniature work in the electronic field. Built from the same fine materials as the larger aids above, but smaller and more delicate in every way.
Overall length, 6 inches; hex handle size, ¼x3"; blade size, ⅛x1½".
No. 51C1–Fork and Hook.
No. 51C2–Fork and Reamer.
Standard pack 10, weight .5 lb.





Hunter Wire Stripper Honed Cutting Edges For Fast Clean Work

Cuts and strips both stranded and insulated wire. Positive adjustment, user can preset tool for any wire size from No. 10 to 20. High quality spring steel.

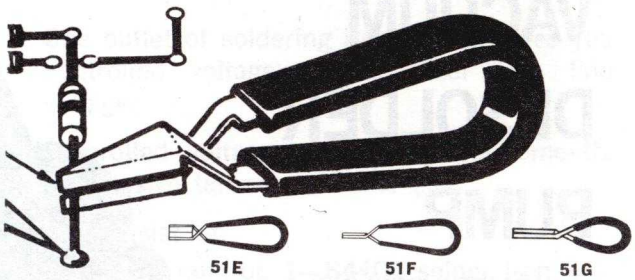
Stock No.	Description	Pkg. of 10 Weight
55B	Plastic grips	1.2 lb.
55BB	Plas. hdl., sprg.	1.2 lb.

All Purpose Terminal Tool For Use With Solderless Terminals

Solderless terminal tool that cuts, strips and crimps. Size of regular plier for easy handling. Can be used with all the standard solderless terminals–makes a fast, firm crimp that holds terminal securely. Tool is convenient size, small and compact but does the complete job.

No. 55C–Standard pack: each. Weight each, .3 pound.

(Heat Sinks) THERMAL SHUNTS



PROTECTS DELICATE COMPONENTS FROM HEAT DAMAGE

Three sizes. Absorbs and dissipates heat during soldering, protects delicate components, dissipates heat instantly.

51G—Small model for delicate work. 1¼" long. Made of Berylco 10, coated plastic handle. Tweezer nose.

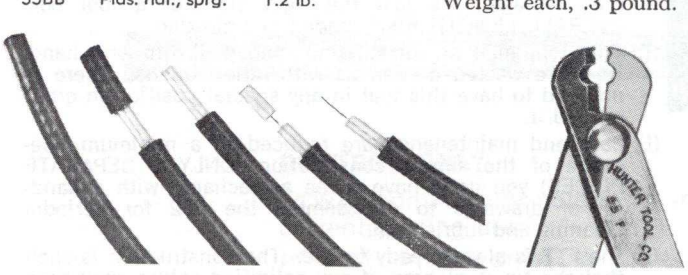
51F—Medium duty unit. Made from Berylco 10, plated, plastic coated handles. Fed. Stock No. 3439-856-9497.

51E—Heavy duty. Has copper jaw. Made of spring steel, plated. Plastic covered handle. Fed. Stock No. 3439-856-9496.

SOLDER BRUSH

For cleaning work in soldering operations. Well made brush 2½" inches in overall size. Stainless wire bristles will give long service even under hard usage. Standard package of 10.

Stock No. 51D



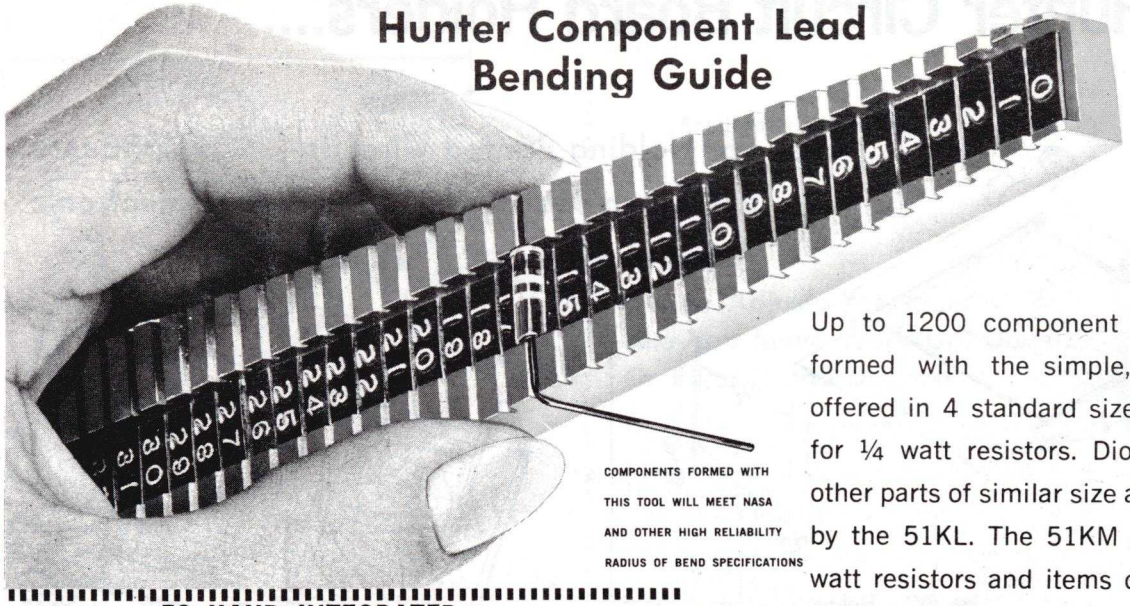
COAX CUTTER & STRIPPER

This efficient compact hand tool is designed specifically to cut and strip #R959/U coax. (This #R959/U is the most popular size used). The #55F is adjustable and can be set to handle all the various sizes of small coax. **STOCK No. 55F**

Form Over 1200 Components Per Hour-at the Bench

Hunter Component Lead Bending Guide

Meets NASA Standards



COMPONENTS FORMED WITH THIS TOOL WILL MEET NASA AND OTHER HIGH RELIABILITY RADIUS OF BEND SPECIFICATIONS

Up to 1200 component leads per hour may be formed with the simple, precise Hunter Gauge offered in 4 standard sizes. The 51KL is designed for ¼ watt resistors. Diodes, disc capacitors and other parts of similar size are currently being formed by the 51KL. The 51KM gauge is designed for ½ watt resistors and items of similar size. The 51KP gauge is designed for 1 watt resistors and similar sizes. The 51KQ is for 2 watt resistors with special features to accommodate the DO-1 outline "Tophot" diodes. All models have 40 lead forming positions. Lightweight, high-impact, Cycolac plastic.

STOCK NO.	DESCRIPTION
51KL	¼ watt size, .375 to 1.50"
51KM	½ watt size, .050 to 1.50"
51KP	1 watt size, .75 to 2.50"
51KQ	2 watt size, .875 to 2.50"

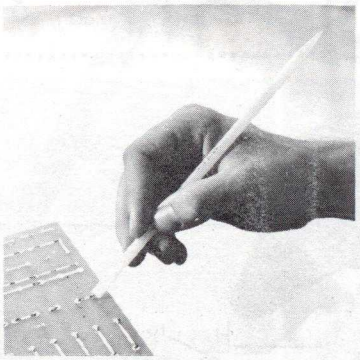
#52 HAND INTEGRATED CIRCUIT INSERTION TOOL

Now Spring Loaded

#52 HAND INTEGRATED CIRCUIT INSERTION TOOL

Ideal for inserting D.I.P. S into printed circuit board. Most DIP hole patterns are designed slightly narrower than the actual lead spread so that the DIP will remain firmly in the board during handling or wavesoldering. This creates a problem in the insertion process. With the #52 insertion tool, DIPs can easily be picked up out of a package, are automatically squeezed to fit the hole pattern and are then ejected when firmly placed in the board.

NYLON LEAD BENDING TOOL

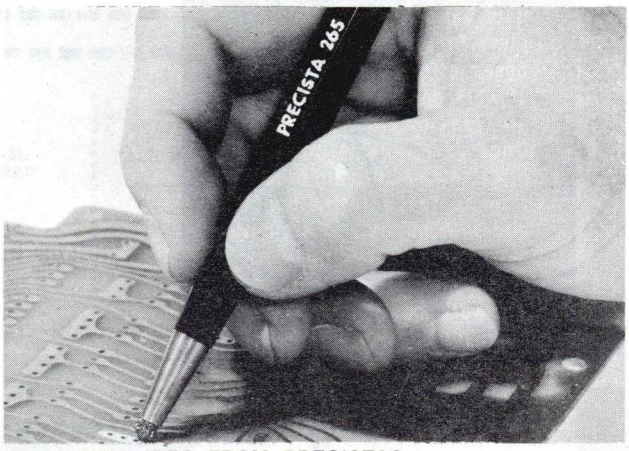


Hunter Stock No. 51FN

Developed by Hunter Special Products Division

Designed to be used for forming component leads before placement on printed circuit boards and for bending extended leads flat on the circuit pads without nicking or marring. One end formed like a pencil point for radius forming leads, the other screwdriver shaped to be used in pressing leads down to circuit pad after insertion and trimming. 8" long, ¼" diameter.

SCRATCH BRUSHES



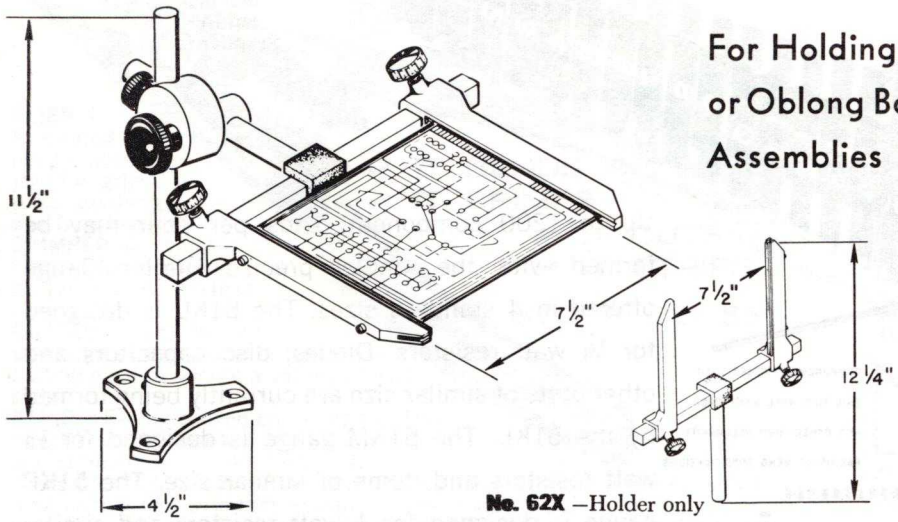
HERE'S A NEW IDEA FROM PRECISTA®:

An unfrizzable scratch brush!! Now the operator uses only as much brush as is needed for the job. When the brush wears out (it won't frizz out) we have replaceable and interchangeable tips. This brush is ideal for deburring, polishing, rust removing; also cleaning and erasing in chemical etching processes. Available in brass, steel, fiberglass and nylon.

Stock No.	Description
F262	HOLDER WITH ALL TIPS 4¾"
F265	HOLDER WITH BRASS TIP
F265A	BRASS REP. TIP
F266	HOLDER W/STEEL TIP 4¾"
F266A	STEEL REP. TIP
F267	HOLDER W/FIBERGLASS TIP 4¾"
F267A	FIBERGLASS REP. TIP
F268	HOLDER W/NYLON TIP 4¾"
F268A	NYLON REP. TIP

Hunter Circuit Board Holders....

For Holding Printed Circuits — Oval, Square or Oblong Boards and Other Precise Electronic Assemblies

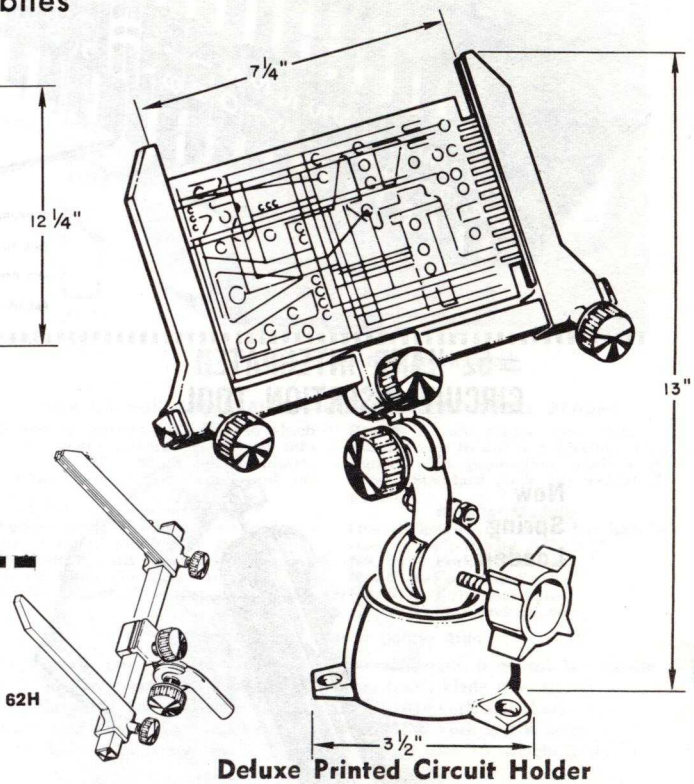


No. 62X —Holder only

Popular Spring Loaded Arm Printed Circuit Holder

One knob allows complete rotation of job. Spring loaded arm makes "snugging up" fast and simple. Makes board changing easy — without touching knobs. Easy to set at desired height and angle; flipping board is fast.

No. 62X1—Printed circuit holder and Adjusto-Positioner.



Deluxe Printed Circuit Holder

Use with Pana-Positioner, board. Turns work surface 360 degrees, horizontal, vertical, any desired position. Spring tension arm allows board to be removed, turned, inserted without adjustment. Holds oval, square and oblong

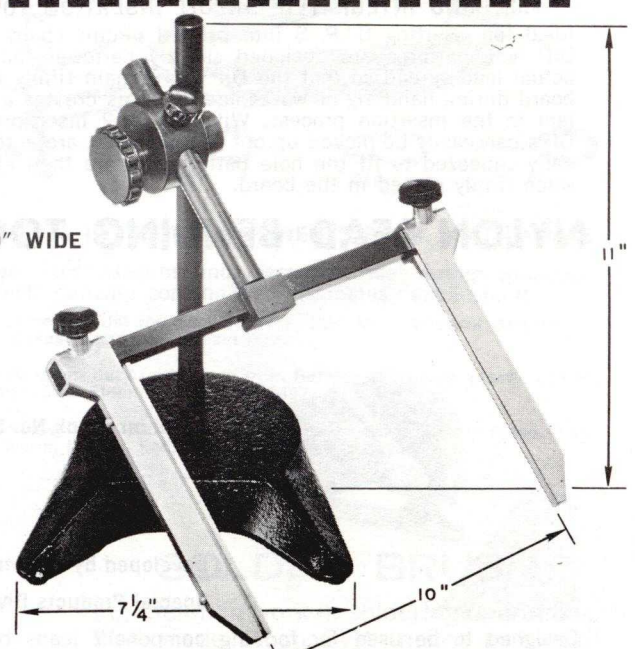
No. 62G—Holder with Pana-Positioner.
No. 62H—Holder only, 10-in. wide.

WIDER BARS AVAILABLE
See Price Schedule

YOUR WORK IS SECURE AND PROTECTED

With Hunter Work Positioners even your most delicate, minute electronics work can be held firmly in position . . . permitting complete use of both hands. Hunter's complete line of attachments and bases offers a wide variety of work positioners to hold all types of electronics work. Once your work is put in place, it's secure and protected from contact with the bench and your hands : . . a simple adjustment moves the work to any position you desire. All work positioner parts are anodized in a dull finish.

HOLDS BOARDS UP TO 10" WIDE



CIRCUIT BOARD HOLDER 62L5

SPRING LOADED

Special design spring load allows circuit board to be inserted or removed from holder with one hand. Once jaws are set for a given size board, boards may be inserted and removed without resetting. Saves time.

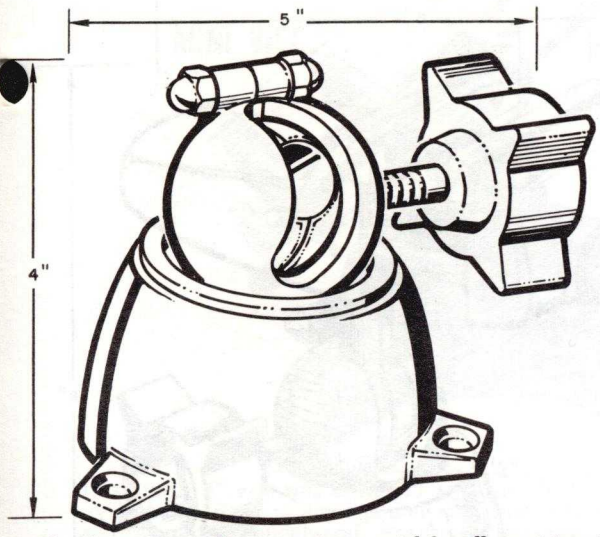
FRICTION BEARING

Allows full 360 degree rotation of the circuit board for lead bend over. Friction bearing can be adjusted to desired tension for easy flip over or tightened securely so board will not rotate. With friction bearing, board can be rotated and stopped at any point in 360 degrees.

INDEPENDENT ROTATION ELEVATION

Once board angle and elevation is adjusted by the operator, it can be locked into place. From then on the board can be rotated 360 degrees independently.

Rotating Positioners Accept Any 5/8" Fixture



The Hunter Pana-Positioner is essential for all precision electronic assembly. With proper fixtures it holds components, modules, and printed circuits in the most desirable working position. Work goes faster, easier and with greater precision. Holds a wide variety of ⅝-in. shaft fixtures, pivots 360 degrees on any tangent to half a sphere, achieves any compound angle. Single lock rigidly holds all fixtures. Die cast from rugged zinc and aluminum alloy, reinforced with steel and brass parts for strength and durability. Hunter has a complete assortment of fixtures available to fit this base.

No. 62A—Pana-positioner. Overall width, 5-inches, height, 4-inches.

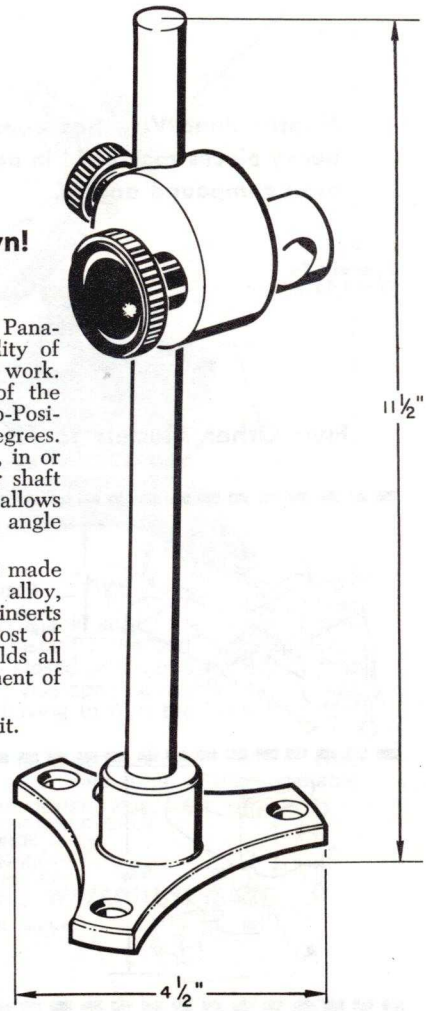
See Hunter 'Shelf Stock' Fixtures Below . . . *

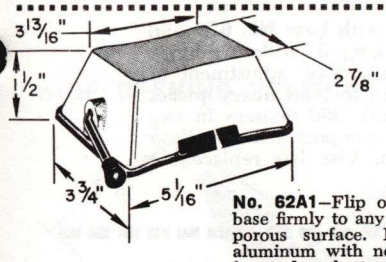
Hunter Adjusto-Positioner Lets You Move Work Up! Down! Or Pivot it 360 Degrees

Does all the work holding jobs of the Pana-Positioner above, plus giving the flexibility of being able to change the height of the work. Depending on the height and/or size of the components being worked on the Adjusto-Positioner can be pivoted a complete 360 degrees. Gives compound adjustment up or down, in or out, round and round. Adjusto-Positioner shaft is 10-in. long. One simple control knob allows setting the job position at just the right angle for most efficient work.

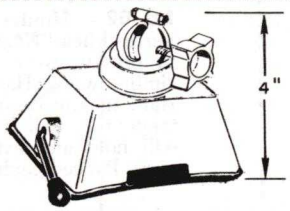
The Adjusto-Positioner head and base is made from durable lightweight aluminum alloy, threaded areas have spring steel helicoil inserts for great strength, long life. 10-inch post of polished steel. The Adjusto-Positioner holds all fixtures with a ⅝-in. shaft, a wide assortment of which are shown in this catalog.

No. 62L—Complete Adjusto-Positioner unit.





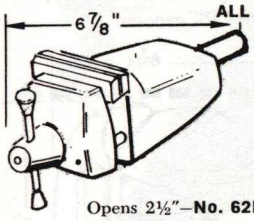
No. 62A1—Flip of lever holds base firmly to any smooth, non-porous surface. Base of cast aluminum with neoprene holding pad on bottom. Top can be drilled, tapped to hold any fixture. Easily moved setups, flip of lever releases vacuum, unit is ready to move.



No. 62A4—Vacuum base above with Pan head positioner mounted on top. Complete versatility in making work set-ups. Very flexible.

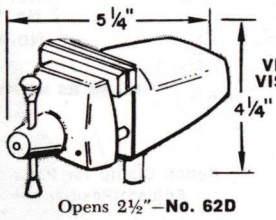
***HUNTER HOLDER FIXTURE ACCESSORIES (Fits Positioners Above)**

ALL WITH ⅝" SHAFTS



HORIZONTAL VISE HEAD

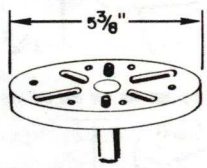
Opens 2½"—**No. 62E**



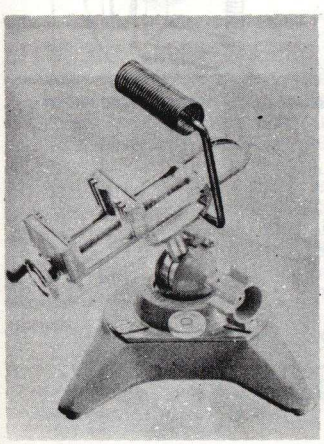
VERTICAL VISE HEAD

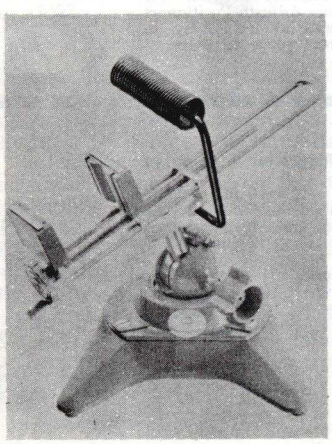
Opens 2½"—**No. 62D**

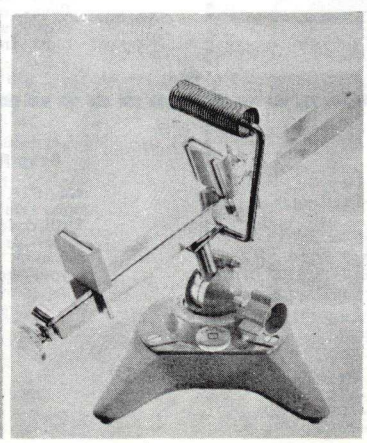
FACE PLATE



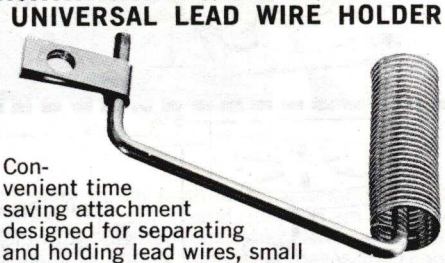
5⅜" Die cast alum.—**No. 62WI**







UNIVERSAL LEAD WIRE HOLDER

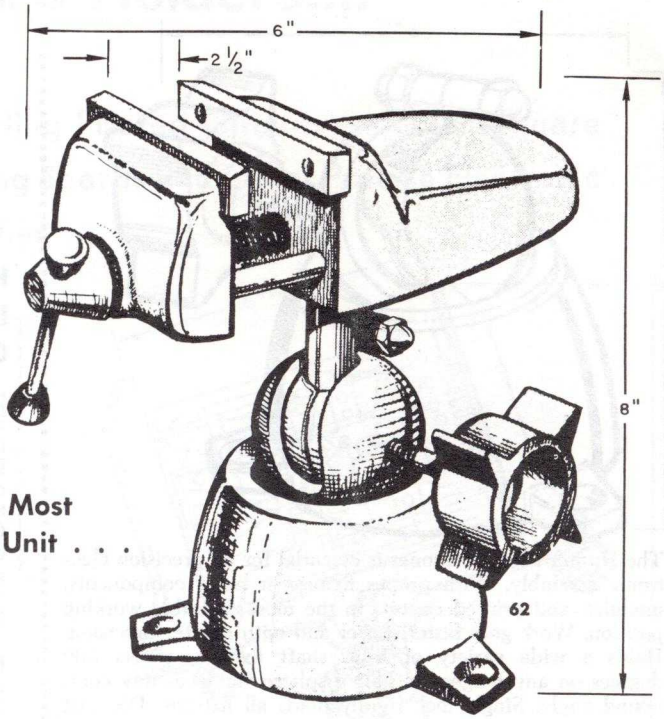


Convenient time saving attachment designed for separating and holding lead wires, small precision tools, or light instruments at technician's finger tips. Mounts onto stem of vise head with removable clip, permitting positioning above, along-side, or beneath. Will fit Vises 62E5, 62E8, 62E2-1. Height overall 5". Coil length 3". Coil width 1". Shipping weight ½ lb.

Stock No. 62E11

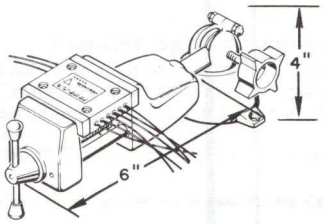
Hunter Pana-Positioner Pivots 360°-Holds Work in any Position

Hunter Pana-Vise has compound locks to hold heavy pieces rock solid in any wanted position — even compound angles.

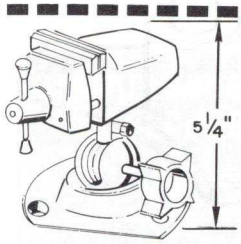


Five Other Models to Fit Your Needs!

Original Most Popular Unit . . .



Regular Pana-Positioner
With Horizontal head. 4" high, 10" long, 5" wide.
No. 62B

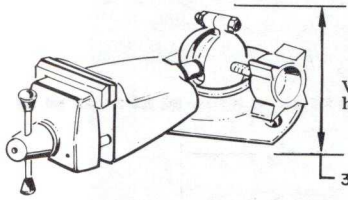


Low Base Positioner
With vertical head. 5¼" high, 5½" long, 5" wide.
No. 62J

Low Base Positioner Only.
No. 62A3

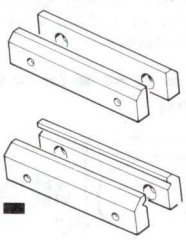
Hunter Pana-positioners are essential in solving holding problems during the assembly of small complicated assemblies in all industry. Available in a number of forms.

No. 62 — Hunter Pana-Vise. Complete with base **No. 62A** and vertical head **No. 62D.** Unit 8" high, 6" long, 5" wide. Designed to present work in any position for assembly, adjustment or similar work. Has compound mechanism to hold heavy pieces rigid in any desired position. Pivots work 360 degrees in any tangent to half a sphere, achieves any compound angle. Base will hold any fixture with ⅝-inch stem. Vise has replaceable jaws. Packed each, weight 3.5 pounds.

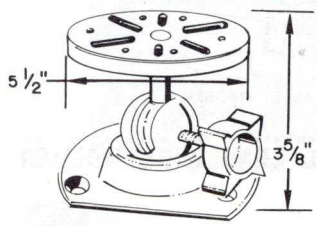


Low Base Positioner
With horizontal head. 3¾" high, 10" long, 5" wide.
No. 62J1

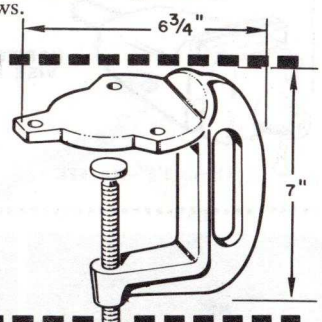
Special Jaws to Hold Small Circuits



No. 62C—Nylon jaws.
No. 62C1—Nylon jaws with "V" groove.
No. 62C2—Steel Jaws.

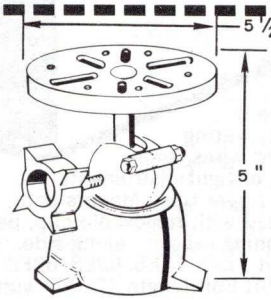


Low Base Positioner
With face plate. 3⅝" high, 5½" dia. plate.
No. 62J3



Bench Clamp for Pana- or Adjusto-Positioners

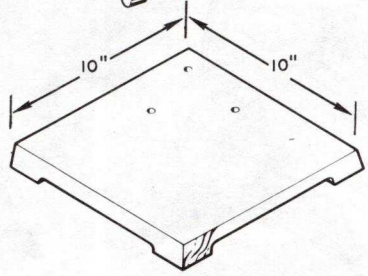
No. 62F—Clamps to bench or table securely. Drilled for Pana- or Adjusto-Positioners above and at left. Easy to move from place to place.



Regular Pana-Positioner
With face plate. 5" high, 5½" diam. plate.
No. 62J2

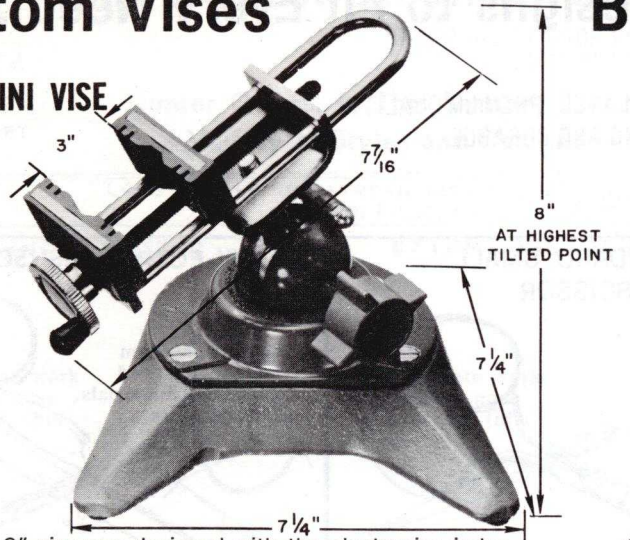
Base Plates for Positioners

No. 62K — 10x10-in. cast steel, cross ribbed to prevent warp. Drilled for mounting either Adjusto- or Pana-Positioners. Can be used as surface plate or for layout work.



Custom Vises Built For Electronics....

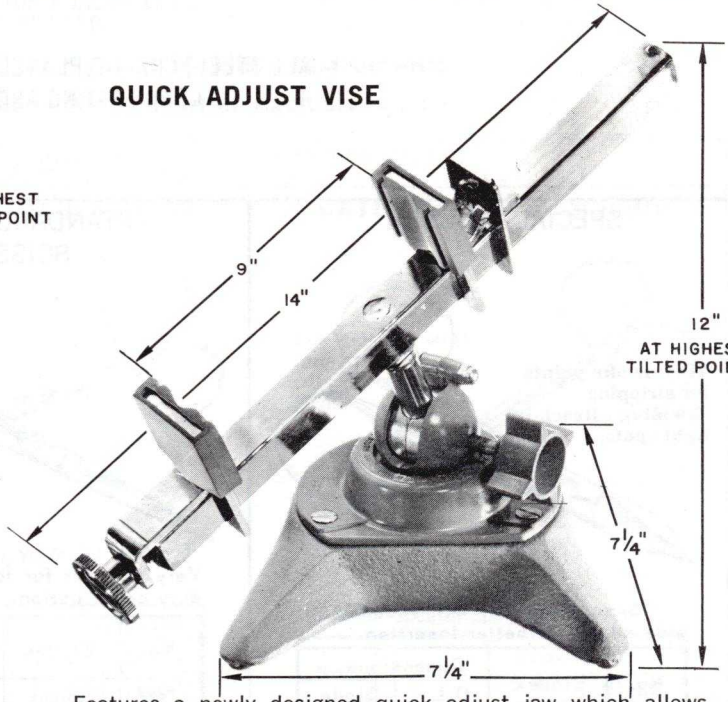
MINI VISE



This sturdy 3" vise was designed with the electronics industry in mind. Base is eight pound cast iron, has rubber feet and is painted Sandalwood. Positioner is famous pana positioner but has the added feature of a permanently locked in mounting pin with 3/8-24 threaded end. Positioner is also spring loaded so that it may be adjusted to correct tension to hold weight in any position and relocated to another position without readjustment. The vise used with cast iron base will hold loads up to 15 lbs. in any position without slipping. If positioner is bolted to bench, loads exceeding 50 lbs. can be held. Vise is chrome plated heavy gauge steel wire. Has replaceable neoprene jaws that open to a full three inches. Crank handle allows quick change from one position to another.

62E7—COMPLETE 3" VISE POSITIONER, BASE
62E5—VISE ONLY
62E6—VISE & POSITIONER
62E1—POSITIONER ONLY
62K3—BASE ONLY

QUICK ADJUST VISE

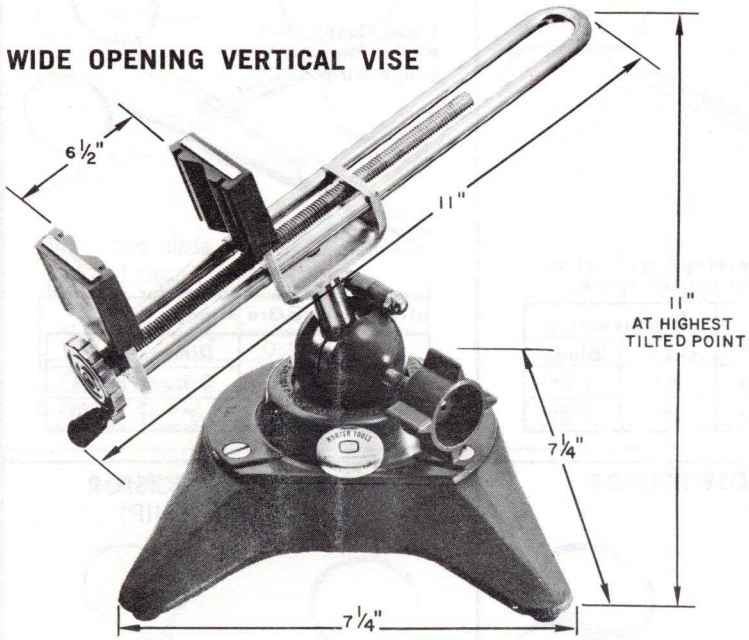


Features a newly designed quick adjust jaw which allows one of the two jaws to be instantly changed from its widest opening position to various closed positions. This means that an operator can change the vise opening from a large object to a small object without having to turn the knob from one extreme to the other.

Illustrated in this photo is a combination unit of vise, positioner, and cast iron base. Each unit is also available separately.

62E4 — POSITIONER, VISE, BASE
62E1 — POSITIONER ONLY
62E2-1 — VISE ONLY
62K3 — BASE ONLY

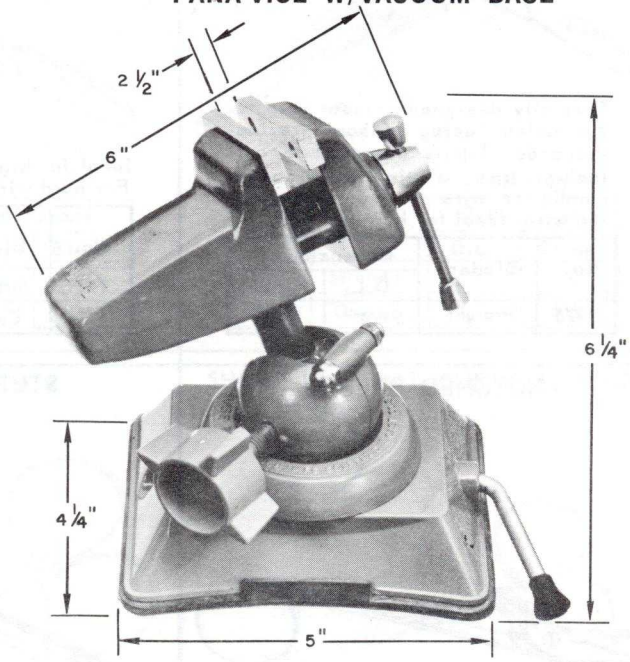
WIDE OPENING VERTICAL VISE



This sturdy 6" Vise is designed for positioning or holding electrical and electronic products in assembly and repair. Ideal for laboratory instruments and vessels, cameras, clocks, and other industrial and scientific research production. Base is eight pound cast iron, has rubber feet and is painted Sandalwood. Positioner is famous pana positioner but has the added feature of a permanently locked in mounting pin with 3/8-24 threaded end. Positioner is also spring loaded so that it may be adjusted to correct tension to hold weight in any position and relocated to another position without readjustment. Vise is chrome plated heavy gauge steel wire. Has replaceable neoprene jaws that open to a full 6" inches. Crank handle allows quick change from one position to another.

62E10—COMPLETE 6" VISE, POSITIONER, BASE
62E9—VISE AND POSITIONER
62E8—VISE ONLY
62K3—BASE ONLY

PANA-VISE W/VACUUM BASE



Designed to present work in any position for assembly, adjustment or similar work. Has compound mechanism to hold heavy pieces rigid in any desired position. Pivots work 360 degrees in any tangent to half a sphere, achieves any compound angle. Vise has replaceable jaws. Vacuum base makes work easier by holding firmly to any smooth nonporous surface. Easily moved setups, just a flip of the lever releases vacuum and unit is ready to move.

62A6—PANA-VISE W/VACUUM BASE
62A4—BASE AND POSITIONER
62A1—VACUUM BASE ONLY
62D—VISE ONLY

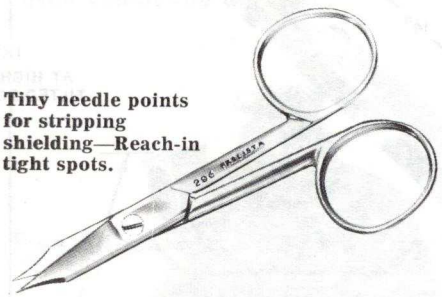
Special Scissors in Designs to Fit Every Need....

ALL STEEL, CHROME PLATED, PREMIUM QUALITY,
LONG LASTING AND DURABLE

PRECISTA
TRADEMARK

SPECIAL SCISSOR

Tiny needle points for stripping shielding—Reach-in tight spots.



Special scissor with reduced outside edges for better insertion.

No.	Blades	Dimensions	
		O.L.	Blade
F296	Straight	3 1/2''	1''

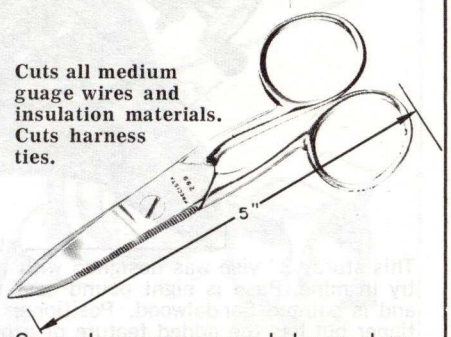
STANDARD SMALL SCISSOR

Very popular for longer cuts. Heavy duty construction.

No.	Blades	Dimensions	
		O.L.	Blade
F297	Straight	3 1/2''	1 1/4''
F298	Straight	4''	1 1/2''

ELECTRICIANS' SCISSOR

Cuts all medium guage wires and insulation materials. Cuts harness ties.



General purpose, rugged, heavy duty construction. Outside blade edges serrated.

No.	Blades	Dimensions	
		O.L.	Blade
F299	Straight	5''	1 3/4''

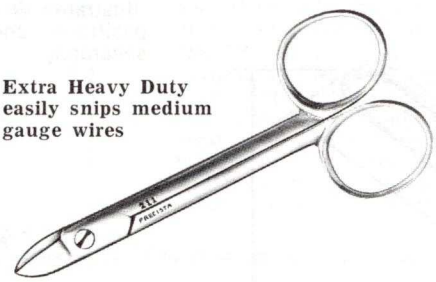
LACING SCISSOR

Specially designed scissor snip to cut nylon lacing without fraying the ends. Tip is designed to cut lacing from a tightly wrapped bundle of wire without damaging the wire. Ideal for harness ties.

No.	Blades	Dimensions	
		O.L.	Blade
F275	Straight	5 1/4''	1/2''

HIGH LEVERAGE

Extra Heavy Duty easily snips medium gauge wires



Ideal for high leverage applications. For hard wires in limited space.

No.	Blades	Dimensions	
		O.L.	Blade
F211	Straight	4''	1/2''
F212	Curved	4''	1/2''

SISTRUNK SCISSOR

Extra Heavy Duty easily snips medium gauge wires.

Long blade & handle for general utility use. Extra strong.

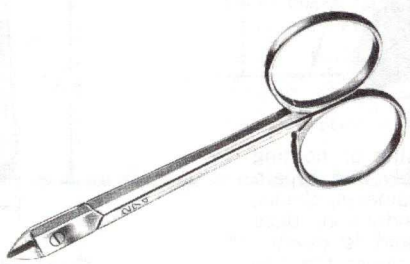
No.	Blades	Dimensions	
		O.L.	Blade
F305	Straight	5''	1 1/4''

NOTCHED SPECIAL

For precision cutting of wire and light sheet metal. Has a special notched blade for cutting round wire, one blade serrated to prevent slippage, strong leverage.

No.	Blades	Dimensions	
		O.L.	Blade
F304	Angle	5''	1''

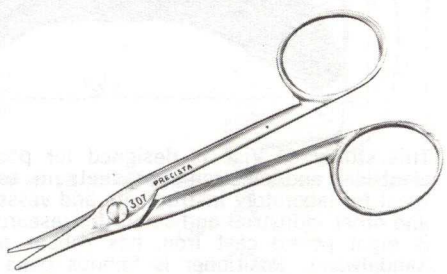
STUB NOSE SCISSOR



Special design high leverage scissor. Used where a shear cut on nickle ribbon is required.

No.	Blades	Dimensions	
		O.L.	Blade
F274	Straight	3 5/8''	1/4''

IN - AND - OUT SCISSOR (MINIATURE SNIP)



For hard wire and light sheet metal. Short triangular blades. Ideal for cutting special patterns. A strong, durable tool.

No.	Blades	Dimensions	
		O.L.	Blade
F307	Straight	4 1/2''	7/8''

Micro-Electronic Assembly Scissors

PRECISTA
TRADEMARK

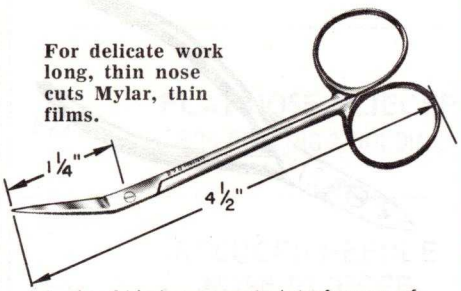
HIGH QUALITY DROP FORGE STEEL
CHROME PLATED

Hunter Offers, in This Section, Cutting and Holding Instruments in a Variety of Styles and Designs — Many Hunter Exclusives . . .

LONG AND SLENDER STREAMLINE DESIGN SCISSORS FOR DELICATE CUTTING SUCH AS MYLAR, THIN FILMS, ETC., PERFECT FOR CONFINED AREAS

60° ANGLE SCISSOR

For delicate work long, thin nose cuts Mylar, thin films.

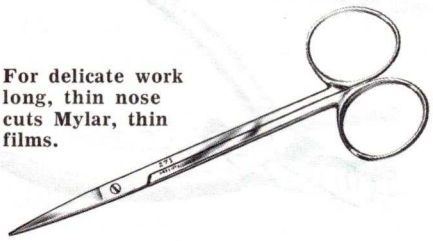


Angle of blades prevents interference of the hand with the work.

No.	Blades	Dimensions	
		O.L.	Blade
F270	Angle	4 1/2''	1 1/4''

EXTRA LONG - SLIM SCISSOR

For delicate work long, thin nose cuts Mylar, thin films.

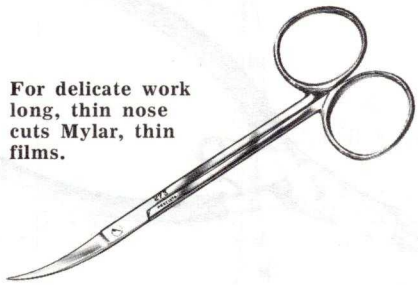


Extra long handles give better leverage for cutting.

No.	Blades	Dimensions	
		O.L.	Blade
F271	Straight	4 3/4''	1 1/4''
F272	Curved	4 3/4''	1 1/4''

LATERAL CURVED SCISSOR

For delicate work long, thin nose cuts Mylar, thin films.

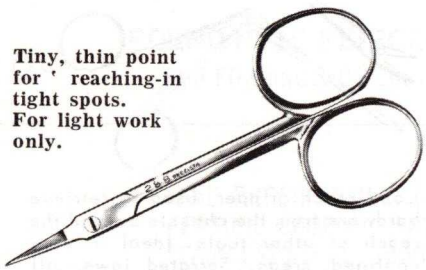


Ideal for special applications.

No.	Blades	Dimensions	
		O.L.	Blade
F273	Curved	4 1/2''	1 1/4''

SHORT BLADE SCISSOR

Tiny, thin point for reaching-in tight spots. For light work only.

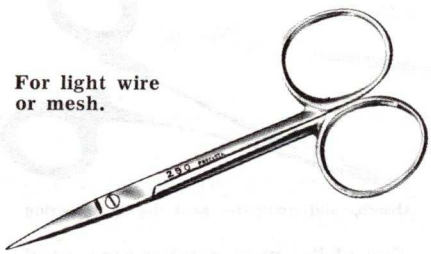


Short, thin blade scissor for delicate work and close tolerance cutting.

No.	Blades	Dimensions	
		O.L.	Blade
F288	Straight	3 1/4''	3/4''
F289	Curved	3 1/4''	3/4''

GENERAL USE

For light wire or mesh.



Most popular general use scissor. A fine, precision made tool.

No.	Blades	Dimensions	
		O.L.	Blade
F290	Straight	3 3/4''	1''
F291	Curved	3 3/4''	1''

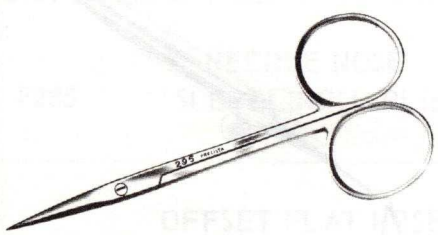
SCISSOR SNIPS

For light metal cutting.

Forged steel snips that will cut up to No. 24 gauge soft wire. Plastic coated handles are easy on fingers.

No.	Blades	Dimensions	
		O.L.	Blade
F221	Straight	7"	1½"
F222	Curved	7"	1½"

LONG SLENDER SCISSOR

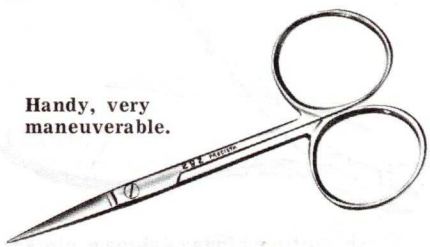


Outside edges of blades are all radiused, prevents scratching and marking.

No.	Blades	Dimensions	
		O.L.	Blade
F295	Straight	4 1/8''	1 1/8''

SHORT SCISSOR

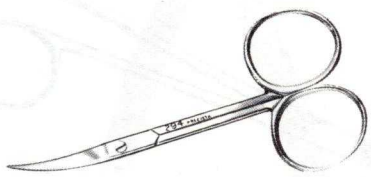
Handy, very maneuverable.



Very popular scissor where extra length is not necessary.

No.	Blades	Dimensions	
		O.L.	Blade
F292	Straight	3 1/2''	1 1/4''
F293	Curved	3 1/2''	1 1/4''

SHORT LATERAL CURVE SCISSOR



Ideal for special applications.

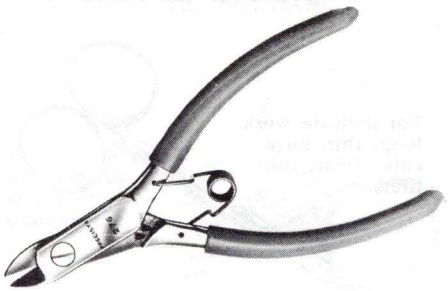
No.	Blades	Dimensions	
		O.L.	Blade
F294	Side Curved	3 1/2''	1''

Snips, Nippers, Serrated Tweezers For Those Special Jobs

PRECISTA
TRADEMARK

PREMIUM QUALITY, LONG LASTING, DURABLE

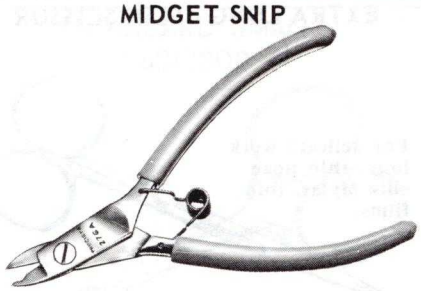
MIDGET SNIP



One blade serrated, one blade smooth. Chrome plated steel, spring included plastic grips optional. General applications.

No.	Blades	Dimensions	
		O.L.	Blade
F276	Serrated	4 1/2''	1/2''

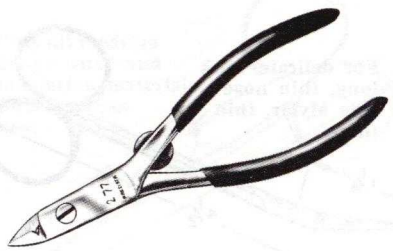
MIDGET SNIP



Non-serrated blades with notch for cutting small wires and nylon lacing. Ideal for nylon harness work. Chrome plated steel. Spring included. Plastic grips optional.

No.	Blades	Dimensions	
		O.L.	Blade
F276A	Straight	4 1/2''	1/2''

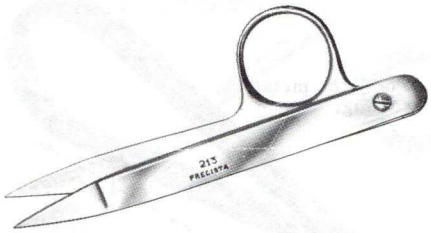
MIDGET SNIP WITH STRIPPER



Chrome plated steel. Strips up to #18 wire. Plastic grips optional.

No.	Blades	Dimensions	
		O.L.	Blade
F277	STRAIGHT SERRATED	4 3/4''	1/2''

NIPPER



Thread snip for light applications. Finger loop with palm grip permits ideal control in the hand. Chrome plated steel.

No.	Blades	Dimensions	
		O.L.	Cut
F213	Straight	4 3/4''	1 1/2''
F213A	STRAIGHT HEAVY DUTY	4 3/4''	1 1/2''
F214	Curved	4 3/4''	1 1/2''

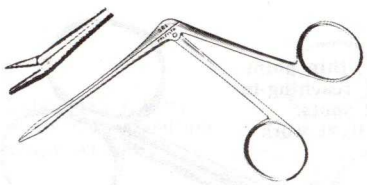
SCISSOR CLAMP

Absorbs and dissipates heat during soldering

One of the most popular tools used in electronics. Third hand when soldering, stainless steel. Serrated jaws hold like vise.

No.	Blades	O. L.	Points
F-35	Straight	5"	Serrated
F-36	Curved	5"	Serrated
F-37	Straight	6"	Serrated
F-38	Curved	6"	Serrated

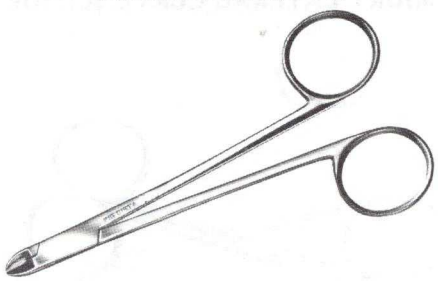
LONG REACH GRIPPER



Long reach gripper, used to retrieve hardware from the chassis beyond the reach of other tools. Ideal in very confined areas. Serrated jaws, all stainless steel. Plastic grips optional. 8'', 10'' or 12'' nose available on special order.

No.	Shape	Dimensions	
		O.L.	Points
F300	Long Nose Offset	5''	Serrated
F301		7''	Serrated

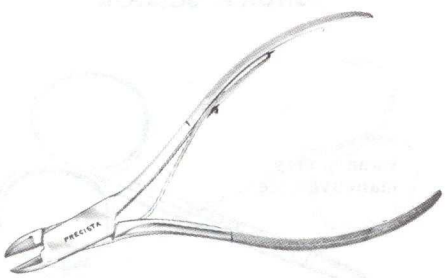
MINIATURE NIPPER



Finger grips permit accurate control of the tool. Flush cutting blades, chrome plated steel, box joint. Ideal for round copper wires 22 gauge & smaller. Plastic grips optional.

No.	Blade	Dimensions	
		O.L.	Blade
F302	Diagonal	4''	9/32''

MINIATURE NIPPER



Flush cutting blades, chrome plated steel, box joint, leaf spring included. Plastic grips optional. Ideal for cutting round copper wires 20 gauge & smaller.

No.	Blade	Dimensions	
		O.L.	Blade
F303	Diagonal	4 1/2''	3/8''

SCISSOR CLIP

Scissor action blades for cutting magnet wires 28 gauge and smaller. All stainless steel.

No.	Blade	Dimensions	
		O.L.	Blade
F306	Angle	4 1/2''	1/2''

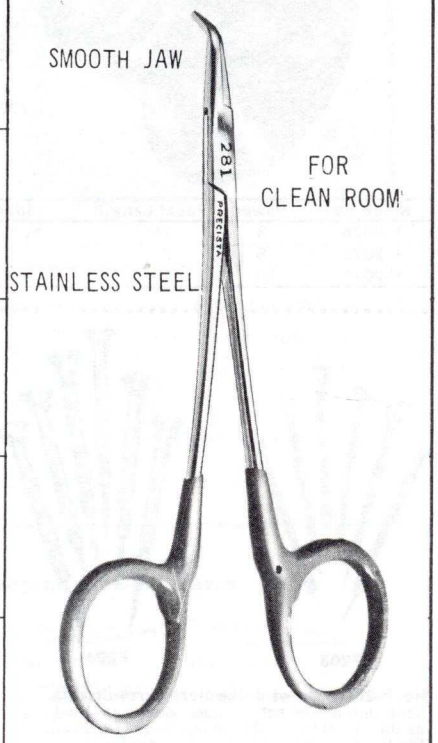
Tools That Give You 'Surgeon-Like' Control.....

FEATURING MICRO MINIATURE PLIER POINTS. FINGER GRIPS PROVIDE SURGEON-LIKE CONTROL OF THE TOOL. IDEAL FOR ULTRA MINIATURE WORK AND CLEAN ROOMS. ALL STAINLESS STEEL, SMOOTH JAWS, PLASTIC COATED HANDLES OVERALL LENGTH 4¾''. IDEAL IN CONFINED AREAS.

PRECISTA TRADEMARK

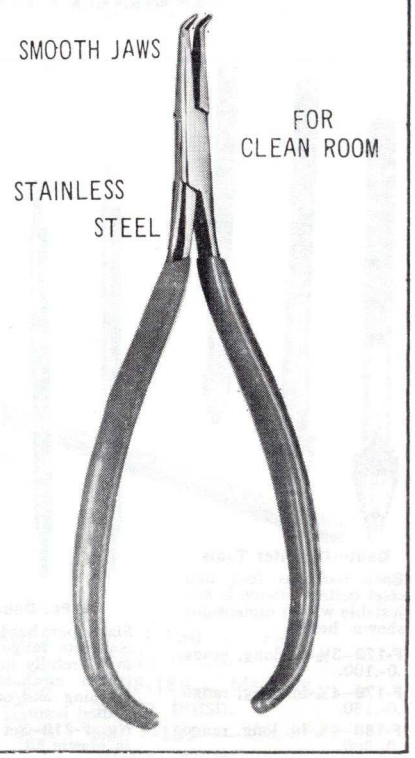
ULTRA SLIM - ONLY 3/16'' x 1/8'' AT HINGE PIN!!

F278	CHAIN NOSE PLIECEP FOR PULLING & HOLDING	LENGTH 4¾''
F279	FLAT NOSE PLIECEP FOR PULLING & HOLDING	LENGTH 4¾''
F280	REDUCED NEEDLE NOSE PLIECEP FOR HOLDING & FORMING	LENGTH 4¾''
F281	OFFSET FLAT NOSE PLIECEP FOR HOLDING & FORMING	LENGTH 4¾''
F282	ROUND NOSE PLIECEP FOR FORMING & COILING	LENGTH 4¾''



SAME PRECISION MICRO MINIATURE PLIER POINTS AS ABOVE PLIECEP SERIES. ''SLENDLINE'' PLIERS FEATURE COMFORT HANDLES (SUPERIOR IN TEDIOUS APPLICATIONS) IN PLACE OF FINGER GRIPS. ALL STAINLESS STEEL, SMOOTH JAWS, PLASTIC COATED HANDLES OVERALL LENGTH 5''.

F283	CHAIN NOSE ''SLENDLINE'' PLIER	LENGTH 5''
F284	FLAT NOSE ''SLENDLINE'' PLIER	LENGTH 5''
F285	NEEDLE NOSE ''SLENDLINE'' PLIER	LENGTH 5''
F286	OFFSET FLAT NOSE ''SLENDLINE'' PLIER	LENGTH 5''
F287	ROUND NOSE ''SLENDLINE'' PLIER	LENGTH 5''



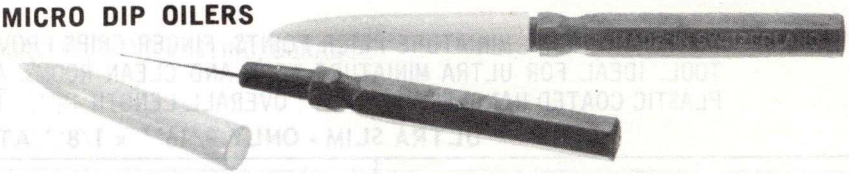
Tools to Help 'Quality Control'

QUALITY EYE LOUPES
SINGLE LENSES

Made with sturdy lightweight frames, with color-coded rings for identification

Stock No.	Power	Focal Length	Identification
F-207A	3	3½"	Yellow & White
F-207D	5	2"	Blue
F-207F	10	1"	Red

MICRO DIP OILERS



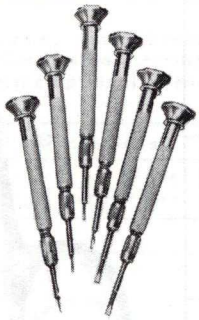
Holds just the right amount of oil on flat steel point. Hex shaped handles prevent rolling off bench. Dust cap keeps tips clean. Color coded for easy identification.

Stock No.	Description	
F260A	— BLACK — VERY FINE	Blade length: ⅝"
F260B	— BLUE — FINE	
F260C	— GREEN — MEDIUM	Overall length: 2⅜"
F260D	— RED — LARGE	

Super Pocket Microscopes — High Magnification

No. F-241—4¾-in. long. Nickel finish, pocket clip, 20X mag.

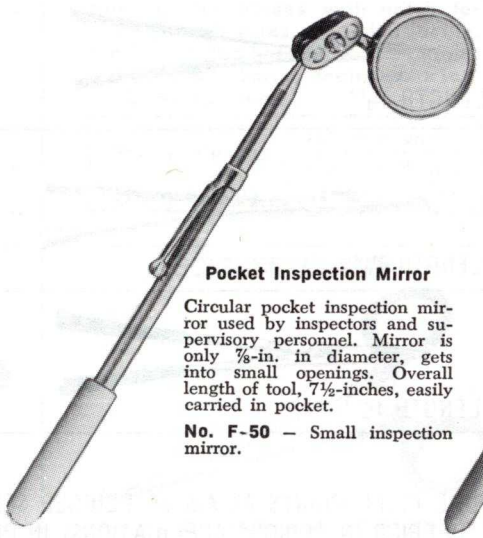
F205



F204

No. F-205—Set of 6 Jewelers screwdrivers. True miniature set — goes down to blade as fine as .022-in. Revolving finger tip head. Blades are reversible to give double wear. Packed in plastic kit. Sizes: .022, .023, .025, .030, .040, .050. Packed each. Weight .8 lb.

No. F-204—Set of Miniature screwdrivers. Six individual drivers. Well made with revolving heads. Come packed in plastic kit. Sizes: .030, .040, .050, .060, .080 and .090. Standard pack of one, weight .8 pounds.



Pocket Inspection Mirror

Circular pocket inspection mirror used by inspectors and supervisory personnel. Mirror is only ⅞-in. in diameter, gets into small openings. Overall length of tool, 7½-inches, easily carried in pocket.

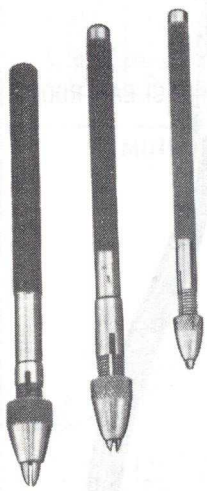
No. F-50 — Small inspection mirror.

Oval Pocket Inspection Mirror

1x2-inch mirror. Gives large viewing mirror, goes thru small openings. Only 8½-inches long overall. Easily carried in pocket.

No. F- 51 — Oval inspection mirror.

Deburring Tools for Fine Work...



Debur-Chamfer Tools

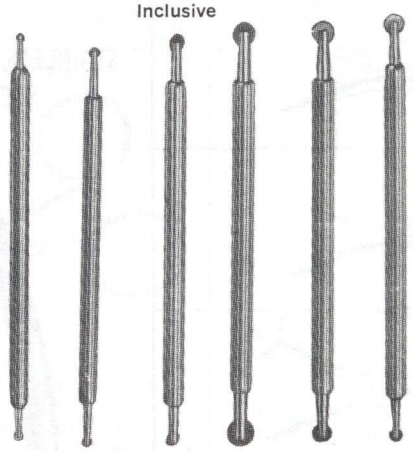
Each tool has four tool steel cutters. Range is adjustable within dimensions shown below.

F-178—3½-in. long, range .0-.100.

F-179—4¼-in. long, range .0-.150.

F-180—4¼-in. long, range .0-.200.

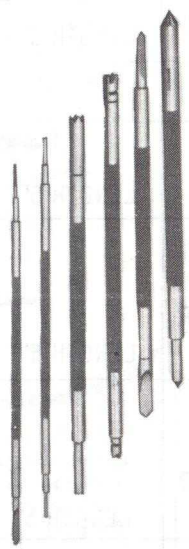
.020 to .225-in. Inclusive



6 Pc. Deburring and Countersink Set

Six super hard steel deburring cylinders in a complete range of sizes from .020-in. to .255-in. Carefully finished Swiss made tools for particular mechanics in precision industries. For cleaning and/or counter-sinking super accurate drilled holes.

No. F-210—Set of six tools, all six sizes below in plastic kit.



Double End Debur Set

No. F-181—6 pc. debur set for precise work. Swiss made, hardened tool steel. Set consists of six sizes.

F-182

F-217

Deburring Scraper

File steel blade.

F-182—2½" long .3/16x2" blade.

F-183 — 3" long. ¼x2½" blade.

No. F-217—Retractable Blade Deburing Scraper. 3½-in. handle with chuck. Triangular file steel blade adjusts to length needed by user. Retracts into handle when not in use.

Tools for Precision Manufacturing ....

Precision Hand Drill

4½-inches long. Very small, for use with tiny drill sizes in fine delicate work. Is Archimedian spiral type, helps prevent fine drills from breaking.

No. F-223—Drill.

BIG SELECTION HAND AND PIN VISES

No. F-219—4-in. long. Hand Vise. Square head style.

No. F-185—3-in. long. Hand Vise. Forged steel, chrome plated. Has double lever action that holds all work securely.

No. F-226—3½-in. Wood handle Pin Vise. Chuck range .000 to .0625-in.

No. F-227—3½-in. Brass Pin Vise. Chuck range, .000 to .040-in.

Four Chucks — Extra Use

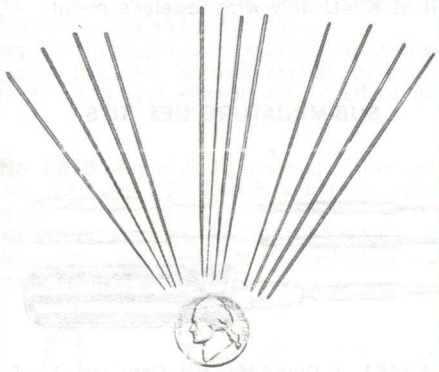
5-in. long. Double ended pin vise, each end with reversible chuck, gives a total of four chucks. Wide range form .000 to .125 inch. Collet type chucks hold tools securely.

No. F-220—Pin vise.

6 Pc. Pin Vise Set

Six pin vises packed in handy wood case. Has a wide range of tool holding ability, ½ MM to 4 MM — 2-in. to 3½-in. Collet type chucks hold tools firmly for use.

No. F-184—Pin vise set.



Miniature Broaching Files

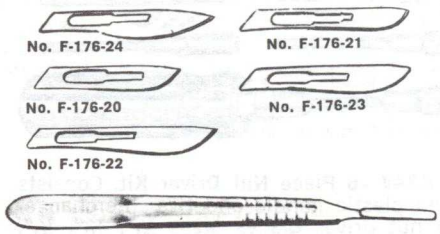
Tiny, 3-in. long, size of large needle. Max. width or diameter 1 MM. Set includes 4 square taper, 4 round taper, 4 round parallel.

No. F-229B—Set of 12.

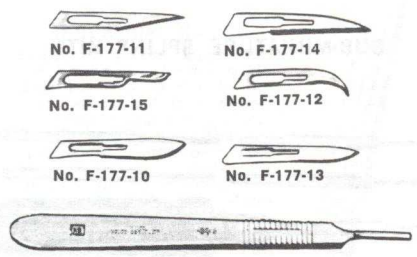
PARKER STYLE KNIVES

Tapered handle is preferred by many operators. Blades can be securely locked in handle but easily interchanged. Flat design of handle prevents dangerous rolling. Set complete with handle and 5 large standard blades listed below:

No. F-176 – Complete set, handle and 5 blades, total 6 pieces.



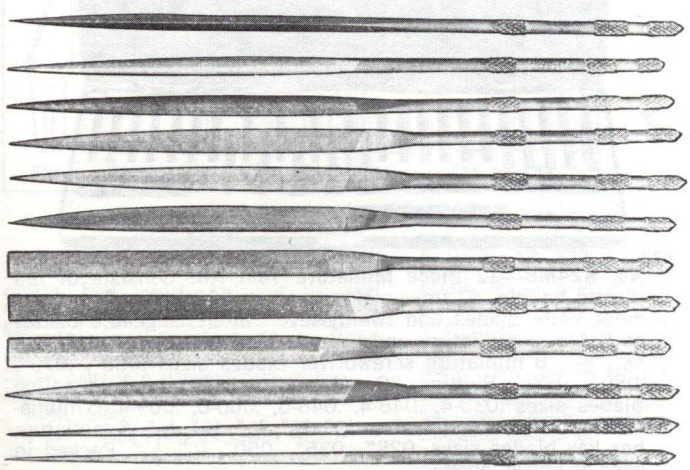
Very Fine Interchangeable Blade Knives



Parker style knife set with small blades. Same handle and features as F-176 set. Set complete with handle and 6 small size blades as listed below:

No. F-177 – Complete set, handle and 6 blades, total 7 pieces.

NEEDLE FILES — SETS OF 12



No. F-228A—Set of 12 Needle Files. 5½-in. long. No. 4 cut. Assorted shapes for all fine filing work. Made in Switzerland.

No. F-228B—Set of 12 Needle Files. 5½-in. long. No. 2 cut. Assorted shapes. From Switzerland's finest factory.

BRISTLE BRUSHES

For cleaning printed circuit boards, etc. Brushes are 10-in. long, brush area, 4½x 4½-inches.

No. F-190 — Hard bristle brush.

No. F-189 — Medium bristle brush.

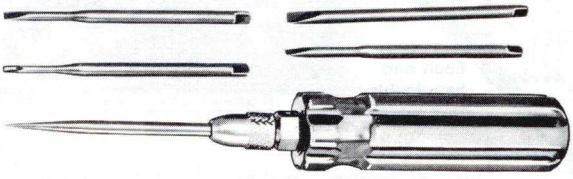
No. F-187 — Soft bristle brush.

Hunter Miniature Tool Kits

All sub-miniature tools are packed in new pop out see through plastic kits. Bend back the top and out pops the tool you need.

New!! Red plastic fluted handle ½" x 2" with collet chuck holds all interchangeable blades firmly.

SUB-MINIATURE SCREWDRIVER KITS



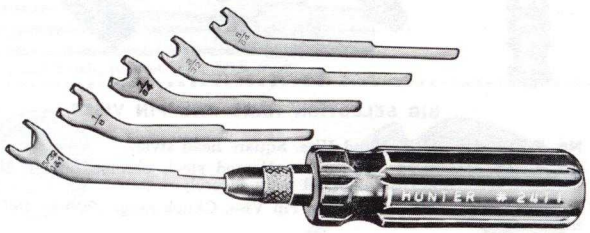
No. K24B13—6 Piece Screwdriver Kit. This is our most popular kit and consists of red plastic handle and five interchangeable screwdriver blades sizes .055", .070", .100", Phillips #0, #1. Standard pack of 10.

No. K24B12—Same kit as K24B13 only with jeweler's metal handle.

No. K24B11—6 Piece Screwdriver Kit. Consists of red plastic handle and four interchangeable screwdriver blades sizes .055", .070", .080", .100" plus awl. Standard pack of 10.

No. K24B—Same kit as K24B11 only with jeweler's metal handle.

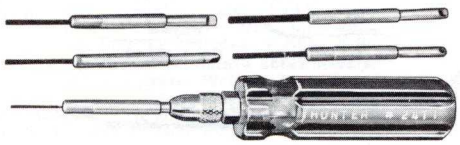
SUB-MINIATURE END WRENCH KITS



No. K24U—6 Piece End Wrench Kit. Consists of red plastic handle and five interchangeable end wrench blades sizes 5/64", 3/32", 7/64", 1/8", 5/32". Standard pack of 10.

No. K24—Same kit at K24U only with jeweler's metal handle.

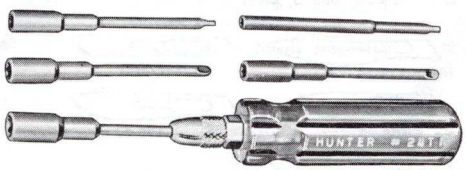
SUB-MINIATURE SPLINE KITS



No. K24Q1—6 Piece Spline Kit. Consists of red plastic handle and five interchangeable spline blades sizes .033-4, .048-4, .048-6, .060-6, .069-4. Std. pack of 10.

No. K24Q—Same kit as K24Q1 only with jeweler's metal handle.

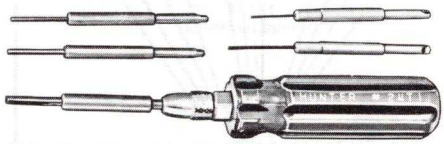
SUB-MINIATURE NUT DRIVER KITS



No. K24V—6 Piece Nut Driver Kit. Consists of red plastic handle and five interchangeable nut driver blades sizes 5/64", 3/32", 7/64", 1/8", 5/32". Standard pack of 10.

No. K24R—Same kit as K24V only with jeweler's metal handle.

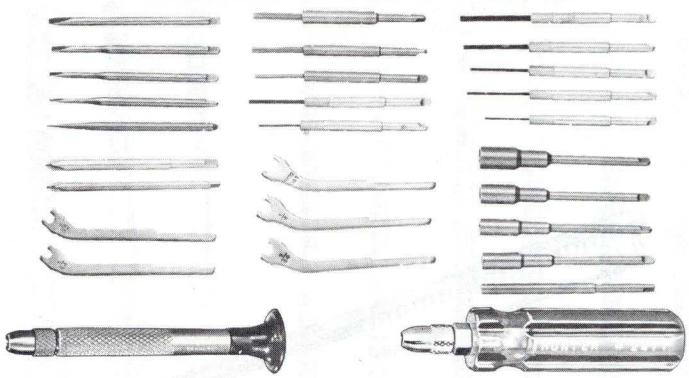
SUB-MINIATURE HEX KITS



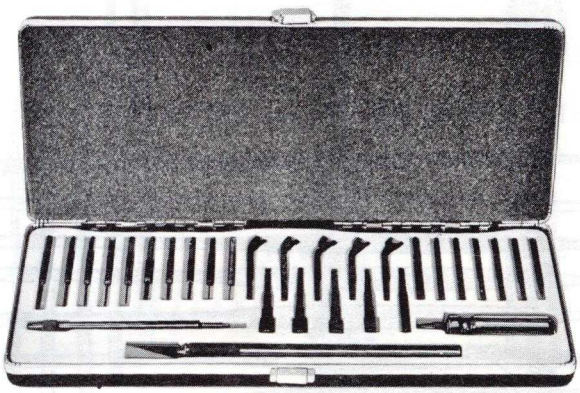
No. K24S1—6 Piece Hex Kit. Consists of red plastic handle and five interchangeable hex blades sizes .028", .035", .050", 1/16", 5/64". Standard pack of 10.

No. K24S—Same kit as K24S1 only with jeweler's metal handle.

MASTER DELUXE SUB-MINIATURE KIT



No. K24M—29 Piece Master Sub-Miniature Kit. Consists of red plastic handle, jeweler's metal handle and twenty-seven interchangeable blades as listed. 5 miniature end wrench blades sizes 5/64", 3/32", 7/64", 1/8", 5/32". 6 miniature screwdriver blades sizes .055", .070", .080", .100". Phillips #0, #1 and awl. 5 miniature spline blades sizes .033-4, 048-4, .048-6, .060-6, .069-4. 5 miniature nut driver blades sizes 5/64", 3/32", 7/64", 1/8", 5/32". 5 miniature hex key blades sizes .028", .035", .050", 1/16", 5/64". Complete with plastic roll up kit.

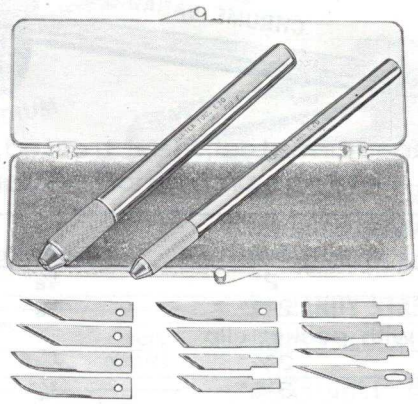


No. K24MB—32 Piece Miniature Tool Kit. Consists of red plastic handle, 4" universal extension, E20 knife, 2 replacement knife blades and twenty-seven interchangeable blades as listed. 5 miniature end wrench blades sizes 5/64", 3/32", 7/64", 1/8", 5/32". 6 miniature screwdriver blades sizes .055", .070", .080", .100". Phillips #0, #1 and awl. 5 miniature spline blades sizes .033-4, .048-4, .048-6, .060-6, .069-4. 5 miniature nut driver blades sizes 5/64", 3/32", 7/64", 1/8", 5/32". 5 miniature hex key blades sizes .028", .035", .050", 1/16", 5/64". Packed in case as shown above.

NOTE—RED PLASTIC HANDLE, JEWELERS METAL HANDLE AND ALL INTERCHANGEABLE BLADES ON THIS PAGE ARE AVAILABLE SEPARATELY THROUGH THE SPECIAL PRODUCTS DEPT.

Precision Made Knives for all Cutting Uses

E8—Knife set in plastic box

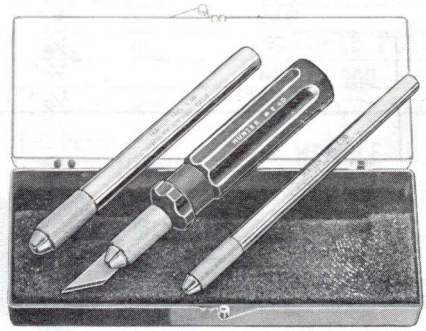


E65B—Knife set with 2 knives

Hunter Precision Knife Sets

Beautifully made knives with replaceable blades designed to do a multitude of industrial cutting jobs. Used in many industries such as the electronic field, the graphic arts field and the textile industries. Used in the electronic field for deburring small parts, scraping and cleaning fine work, stripping extremely fine wires, trim and clean up on electronic components, printed circuit work, cutting harness lacings and similar jobs.

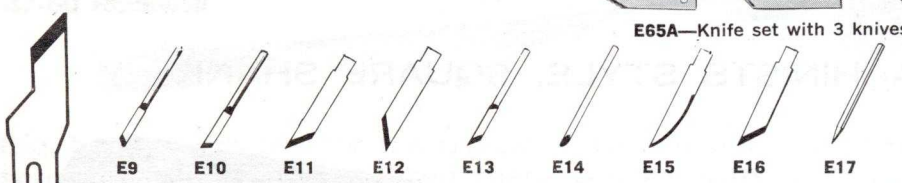
No. E8—10 blades as shown below packed with handle in plastic box. Box is small enough to be carried in the pocket. Compact efficient set. Standard pack 1, weight 2 oz.



No. E65B—Set with 10 assorted blades and two knives, Nos. E20 and E30 described at right. Packed 1, weight 4 oz.

No. E65A—Set with 10 assorted blades and three knives, Nos. E20, E30 and E40, described at right. Standard pack 1. Weight 5 oz.

E65A—Knife set with 3 knives

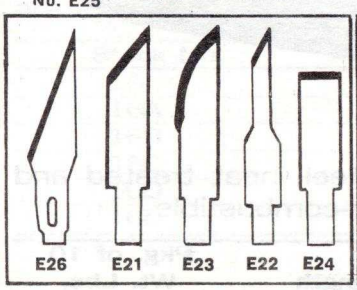


E9 E10 E11 E12 E13 E14 E15 E16 E17

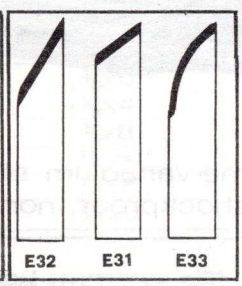
NEW! No. E25

Replacement blades for No. E8A knife above. Will not fit other Hunter Knives

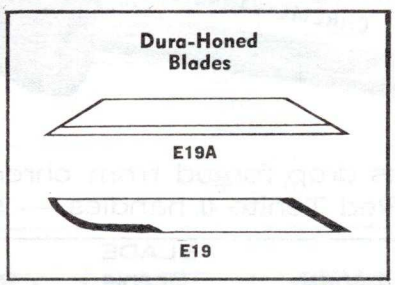
No. E9—Pack 5
No. E10—Pack 5
No. E11—Pack 5
No. E12—Pack 5
No. E13—Pack 5
No. E14—Pack 5
No. E15—Pack 5
No. E16—Pack 5
No. E17—Pack 5



E26 E21 E23 E22 E24



E32 E31 E33



Replacement Blades for No. E20 and E20S Knives

Sharp surgical steel blades. 1½x¼ inch, .022" thick. Can be used for medium heavy cutting. Five models including the new sharp angle shape. All shapes are the most popular shapes generally used in industry. These blades will fit only the Hunter Model E20 and E20S Knife.

Blades come in a standard pack of five.

No. E26—New sharp angle (will not fit E20S knife).

No. E21—Angle shape for slicing cuts.

No. E23—Curve shape for thin material.

No. E22—Slim angle for controlled cuts.

No. E24—Scraper. Widely used for cleaning.

No. E28—Blade Set — One each of above blade.

Blades for E30, E40 Knives

Three most wanted blades to fit Hunter **No. E30** and **E40** Heavy Duty knives. These blades will not work in other Hunter knives. Blades of surgical steel, they are sharp and will stay sharp. 1½x5/16 inch in size, .032-inches thick. These blades are primarily designed for industrial use and will give good service under difficult conditions. Standard pack of 5.

No. E32 — Deep angle. For making deep, clean cuts.

No. E31—Shallow angle. Used for cleaning and scraping.

No. E33—Curve. Used where cut must be smooth.

FOR RETRACTING KNIFE

For the Hunter retractable blade knife **No. E18.** These blades are specially designed to be used with this knife and will not work in other Hunter knives. Made from surgical steel with scalpel sharp dura-honed edges. They are sharp, and will stay sharp. Standard pack of 5.

No. E19A — Straight blade. Has two cutting edges for extra long wear.

No. E19—Curved and angle end. Two cutting shape for the price of one blade.

RETRACTABLE BLADE
Extra Safe

Has a maximum of safety features. Blade retracts with a flick of the finger when the knife is not in use — no exposed blades to cut unwary fingers. Knife can be carried safely in the pocket or stored in tool box without damage to blade. Has hex top — tool can't roll from work bench to cut legs or feet as it falls. That's why we say it's — extra safe.

No. E20S—Standard pack 10. Weight standard pack 15 oz.

UTILITY KNIFE

General use, all purpose knife. A light weight but sturdy knife that will give good service in lighter kinds of industrial service. Made of light weight aluminum it is light and easy to use – good knife to use where accuracy of cutting is important. Knife is 5/16-inch in diameter and 5 inches long, right size for women's and girls' hands. Five styles of replaceable blades are available for this knife. They are listed in the lower left hand corner of this page.

No. E20 – Standard pack 10. Weight standard pack 8 oz.

INDUSTRIAL KNIFE

Good all around knife very much used in industrial work. This knife is similar to the knife above but it is larger, somewhat sturdier and it will handle heavier work than its lightweight counterpart. We recommend this knife for medium to heavy work. It is made with a 7/16-in. aluminum handle and the screw chuck holds blades securely and without wobble. This knife uses the industrial quality blades listed at the bottom of the page, consequently will serve in many industrial applications.

No. E30 – Standard pack 10. Weight 15 oz.

HEAVY DUTY KNIFE

Our biggest, heaviest, most rugged industrial knife. Made to give long service in the most difficult service. Big husky unit, with a handle large enough to allow considerable pressure to be applied during cutting. Good for cutting obdurate or heavy materials.

Has large ⅞x3½-inch plastic handle and a sturdy chuck which hold blades firmly even during heavy cuts. Takes our heavy replacement blades shown at the bottom of this page.

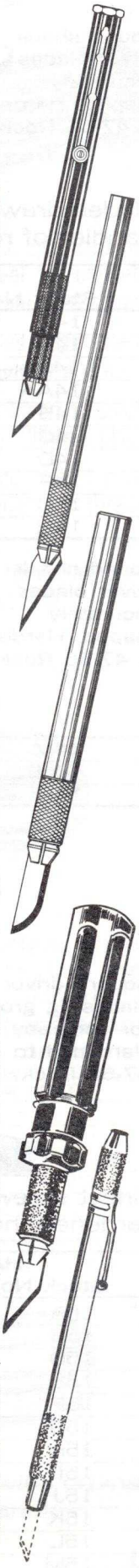
With this knife and its heavy duty blades you can tackle any cutting problem.

No. E40 – Standard pack 10. Weight standard pack 1 lb.

RETRACTABLE MODEL

A retractable blade knife suitable for general purpose use. The retractable blade feature plus the pocket clip makes this a knife that is especially suitable for use by people whose job takes them from position to position. Excellent knife for inspectors, foremen, and similar personnel. Good laboratory knife, particularly laboratory people who do field work. Tool can be stored in tool box without damage to the cutting edge.

No. E18 – Standard pack 10. Weight standard pack 8 oz.



Quality Drivers With a Size For Every Job....

REGULAR OR PHILLIPS ROUND SHANK DRIVERS

Round shank driver blades accurately shaped. Hardened to 47-50 Rockwell

Blades drawn from chrome vanadium steel, heat treated, hardened. Full polished nickel plated. Handles of red Tenite plastic — shock-proof, non-combustible. None better made.

Stock No.	HANDLE Diameter	HANDLE Length	BLADE Diameter	BLADE Length	Pk. of 10 Wt. Lbs.
14	9/16"	2"	1/8"	2"	.5
14A	9/16"	2 3/4"	1/8"	3"	.5
14A1 — Same as 14A, but with pocket clip					
14AA	9/16"	2 3/4"	1/8"	6"	.5
14B	7/8"	3 1/2"	3/16"	4"	1.2
14C	7/8"	3 1/2"	3/16"	6"	1.2
14D	7/8"	3 1/2"	3/16"	8"	1.5
14F	1 1/8"	2"	1/4"	1 1/4"	1.
14G	1"	3 3/4"	1/4"	4"	1.7
14H	1"	3 3/4"	1/4"	6"	2.

Round shank driver blades accurately shaped. Hardened to 47-50 Rockwell

14M	9/16"	2"	1/8"	1 1/4" #0	1.5
14N	7/8"	3 1/2"	3/16"	2 3/4" #1	1.7
14P	1"	3 3/4"	1/4"	4 1/2" #2	2.7

REGULAR TIP, MACHINISTS STYLE, SQUARE SHANK

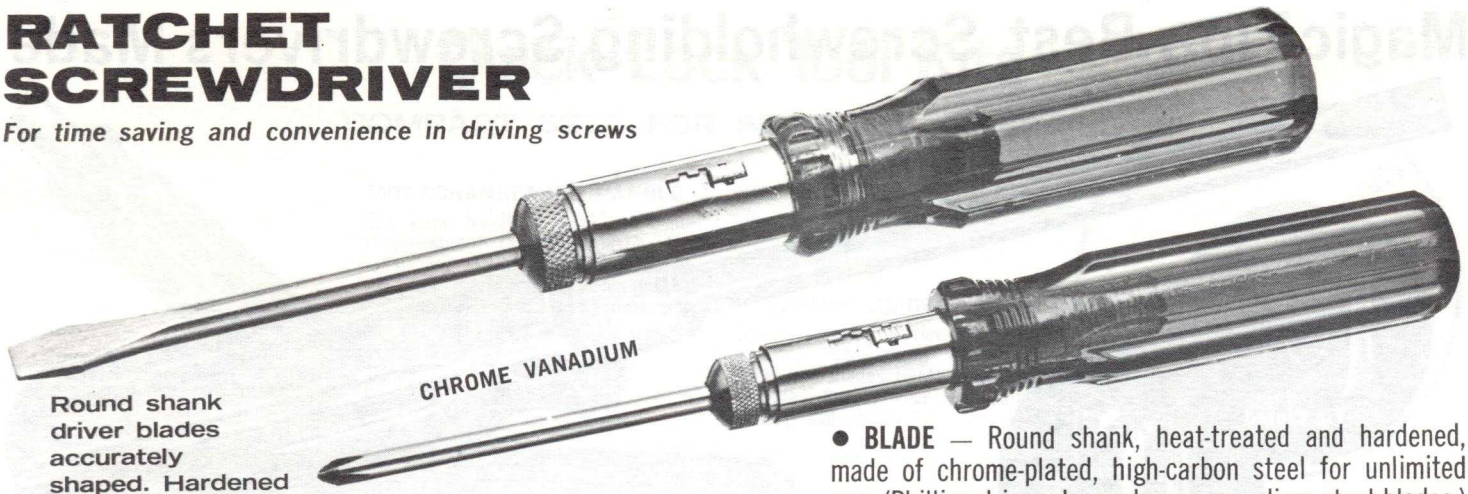
Square driver blades jig ground for accuracy. Hardened to 47-50 Rockwell

Finest screwdriver made! Blades drop forged from chrome-vanadium steel, heat treated and hardened, hard chrome finish. Red Tenite II handles — shockproof, non-combustible.

Stock No.	HANDLE Diameter	HANDLE Length	BLADE Shank	BLADE Tip	BLADE Length	Pkg. of 10 Wt. Lbs.
15A	3/4"	3"	1/8"	1/8"	3 1/2"	.7
15C	1"	2 1/2"	3/16"	1/4"	2"	1.
15D	7/8"	3 1/2"	3/16"	1/4"	4"	1.
15E	7/8"	3 1/2"	3/16"	1/4"	6"	1.7
15F	7/8"	3 1/2"	3/16"	1/4"	8"	2.
15G	1 1/8"	2"	1/4"	5/16"	1 1/2"	1.2
15H	1"	3 3/4"	1/4"	5/16"	4"	2.
15I	1"	3 3/4"	1/4"	5/16"	6"	2.5
15J	1"	3 3/4"	1/4"	5/16"	8"	2.7
15K	1"	3 3/4"	1/4"	5/16"	10"	3.2
15L	1 1/8"	4"	5/16"	3/8"	4 1/2"	2.7
15M	1 1/8"	4"	5/16"	3/8"	6 1/2"	3.
15N	1"	4"	5/16"	3/8"	8 1/2"	4.

RATCHET SCREWDRIVER

For time saving and convenience in driving screws



Round shank driver blades accurately shaped. Hardened to 47-50 Rockwell

STOCK NO.	TYPE	HANDLE DIAMETER	HANDLE LENGTH	BLADE DIAMETER	BLADE LENGTH	LENGTH OVERALL
13R	Cabinet Blade	15/16"	3¾"	3/16"	3⅞"	9"
13S	Regular Blade	1⅛"	4"	¼"	3⅝"	9"
13W	Phillips #1	15/16"	3¾"	3/16"	3"	8"
13X	Phillips #2	1⅛"	4"	¼"	5"	10½"

- **BLADE** — Round shank, heat-treated and hardened, made of chrome-plated, high-carbon steel for unlimited use. (Phillips drivers have chrome vanadium steel blades.)
- **HANDY STARTER** — Convenient knurled finger starter helps you position the tip in the screw quickly and easily.
- **RATCHET**—Ratchet mechanism is machined to precise accuracy for a sure, firm driving action. Chrome plated.
- **THREE POSITION CONTROL** — Slotted button moves easily and locks firmly in place to give you forward, reverse, or standard drive.
- **HANDLE**—Large, comfortable handle formed of Tenite plastic is shock-proof and non-combustible.

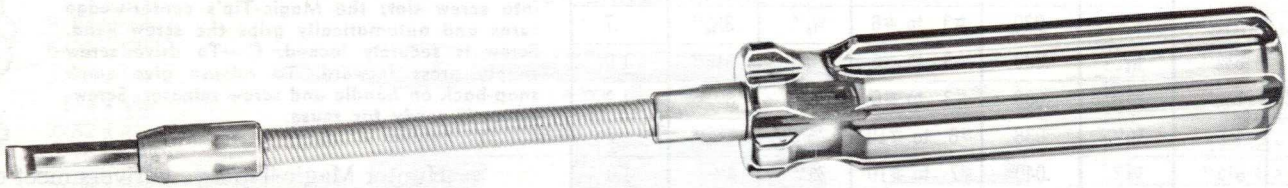
HUNTER SPECIAL DRIVERS – EXTRA LARGE HANDLES WITH SMALL AND MEDIUM BLADE SIZES

Square driver blades jig ground for accuracy. Hardened to 47-50 Rockwell

Big, he-man drivers, for the big powerful mechanic who wants to put a lot of torque on his screwdrivers. We have fitted these drivers with oversize 1⅛x4" handles to allow the man with the "big grip" to use all of his strength. These drivers have all of the quality features of the line above: chrome-vanadium blades, hard chrome finished, red Tenite II plastic handles that are approved shockproof and non-combustible — these are the best screwdrivers made!

Stock No.	Blade, Inches	For Screws	Wt. Std. Pack of 10
16	3/16x6	Small	2.2
16A	3/16x4	Small	2.2
16B	3/16x8	Small	2.7
16C	¼x4	Medium	2.5
16D	¼x6	Medium	3.2
16E	¼x8	Medium	3.2

HUNTER FLEX SHAFT SCREWDRIVERS

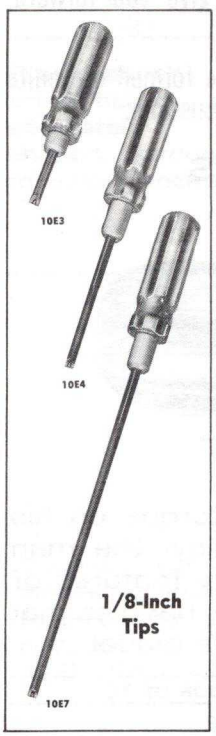


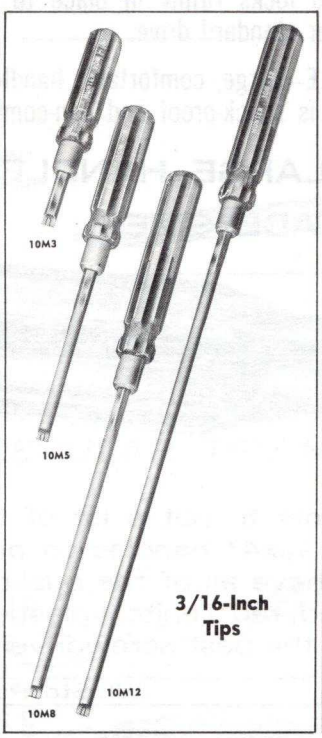
Will turn screws in almost inaccessible places — places that can't be reached with ordinary drivers. Tempered spring steel wire shaft, heat treated blade, Tenite II plastic handle.

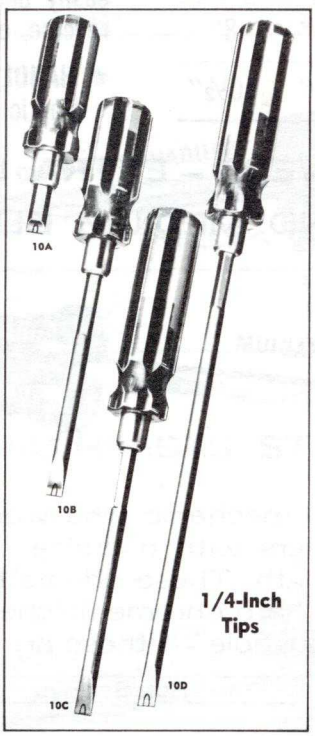
No. 13B—3/16" tip regular driver 8" long over all. Pack 10.
No. 13C—No. 2 Phillips, 8" overall. Pack 10, wt. 1.5 lbs.

Magic Tip...Best Screwholding Screwdrivers Made

There is a Magic Tip Driver Size To Meet Every Need and Purpose



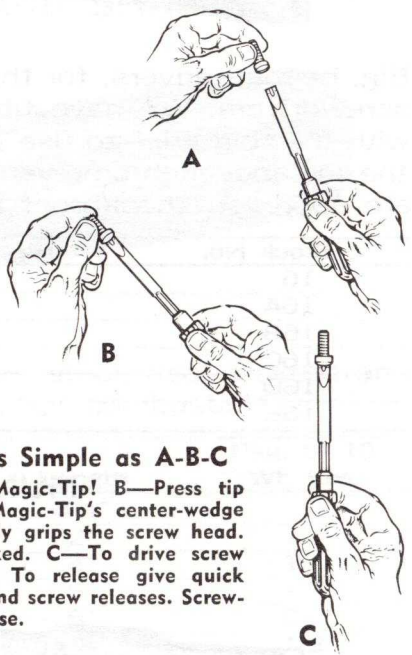




Stock No.	Overall Length	Width of Point	Thickness of Point	Slot Fits Screw	Diam. Handle	Blade Length	Pkg. of 10 Wt. Lbs.
10E3	2½"	1/8"	.017	#00 to #2	5/16"	1¼"	.5
10E4	4"	1/8"	.017	#00 to #2	5/16"	2½"	.5
10E7	7"	1/8"	.017	#00 to #2	5/16"	5½"	.5
10M3	3½"	3/16"	.030	#3 to #6	5/16"	1 1/16"	.7
10M5	5¼"	3/16"	.030	#3 to #6	5/16"	3 1/16"	.7
10M8	8¼"	3/16"	.030	#3 to #6	5/16"	5 1/16"	1.0
10M12	11¼"	3/16"	.030	#3 to #6	5/16"	8"	1.2
10A	4"	¼"	.038	#6 to #10	⅞"	1 5/16"	.7
10B	6¼"	¼"	.040	#7 to #10	⅞"	4"	1.0
10C	7½"	¼"	.040	#7 to #10	⅞"	4 7/16"	1.0
10D	11¼"	¼"	.040	#7 to #10	⅞"	7 3/8"	1.7

8 Reasons why HUNTER Drivers are best!

1. Compact! Drives and removes screws in inaccesible areas where other drivers will not work!
2. Every driver checked for secure screw-holding!
3. No rings to push! No awkward, bulky clips!
4. Drives steel, non-ferrous or nylon screws!
5. Non-magnetic! Ideal for electrical work!
6. Tenite II, plastic handle . . . Shockproof! Flameproof! Tested to stand 2500 volts!
7. Blade made from A1S1-4150 alloy steel. Heat treated and hardened to 48-50 Rockwell!
8. Precision made throughout!



The Magic Tip is Simple as A-B-C

A—Place screw on Magic-Tip! B—Press tip into screw slot; the Magic-Tip's center-wedge turns and automatically grips the screw head. Screw is securely locked. C—To drive screw simply press forward. To release give quick snap-back on handle and screw releases. Screwdriver is ready for reuse.

Hunter Magic-Tip screwdrivers meet exacting Federal Stock Numbers as follows:

Stock No.	Fed. Stock No.	Stock No.	Fed. Stock No.
10E3	5120-821-3997	10B	5120-278-0326
10M3	5120-278-0325	10C	5120-293-3344
10M12	5120-278-0327	10D	5120-596-0897

Quick-Lock Tool Kits

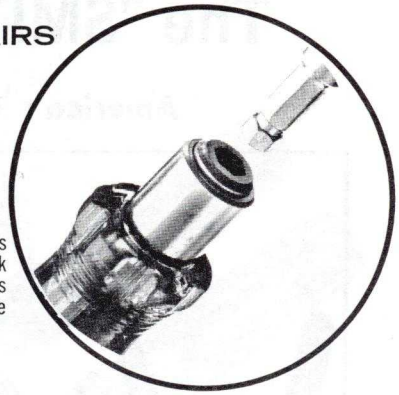
COMPACT SETS FOR SERVICING — REPAIRS

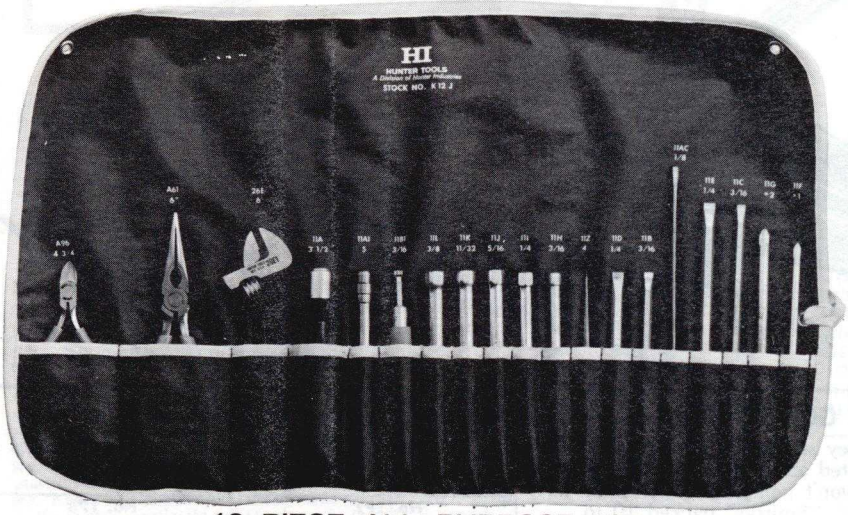
INTERCHANGEABLE HANDLE

This large handle 1"x3½" is made of shockproof Tenite II plastic. The handle is easy to hold, easy to use and easy on the hands. This handle fits all blades shown and described on this page. **Stock No. 11A.**

SPRING LOADED CHUCK

Special locking device holds blades secure. This spring loaded chuck locks the blades tightly and prevents wobble. Saves wear on both the blades and handle.





19 PIECE ALL PURPOSE KIT

A complete tool box in a roll. This kit contains one cutter, one chain nose plier, one adjustable wrench, one interchangeable handle, one 4" magic tip blade, one 5" extension, 7 screwdriver blades: ⅛x6½, 3/16x4, 3/16x6, ¼x4, ¼x6, #1x4 and #2x5½ Phillips; 5 nut driver blades: 3/16x4, ¼x4, 5/16x4, 11/32x4, ⅜x4 and one 4" awl. **Stock No. K12J.**

15 PIECE ALL PURPOSE KIT

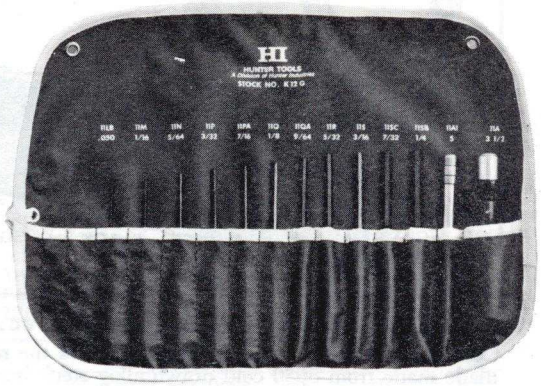
This kit contains: one interchangeable handle, one 5" extension, one 4" magic tip blade, 7 screwdriver blades: ⅛x6½, 3/16x4, 3/16x6, ¼x4, ¼x6, #1x4 and #2x5½ Phillips; 5 nut driver blades: 3/16x4, ¼x4, 5/16x4, 11/32x4, ⅜x4 and one 4" awl. **Stock No. K12H.**

9 PIECE SCREWDRIVER KIT

This kit contains: one interchangeable handle, one 5" extension, one 4" magic tip blade, 7 screwdriver blades: ⅛x6½, 3/16x4, 3/16x6, ¼x4, ¼x6, #1x4 and #2x5½ Phillips. **Stock No. K12F.**

7 PIECE NUTDRIVER KIT

This kit contains: one interchangeable handle, one 5" extension and 5 nut driver blades: 3/16x4, ¼x4, 5/16x4, 11/32x4, ⅜x4. **Stock No. K12D.**



13 PIECE HEX DRIVER KIT

The best selection of hex blades in a roll. This kit contains: one interchangeable handle, one 5" extension and 11 hex blades: .050x4⅝, 1/16x4⅝, 5/64x4⅝, 3/32x4⅝, 7/64x4⅝, ⅛x4⅝, 9/64x4⅝, 5/32x5⅜, 3/16x5⅜, ¼x4⅝, 7/32x4⅝. **Stock No. K12G.**

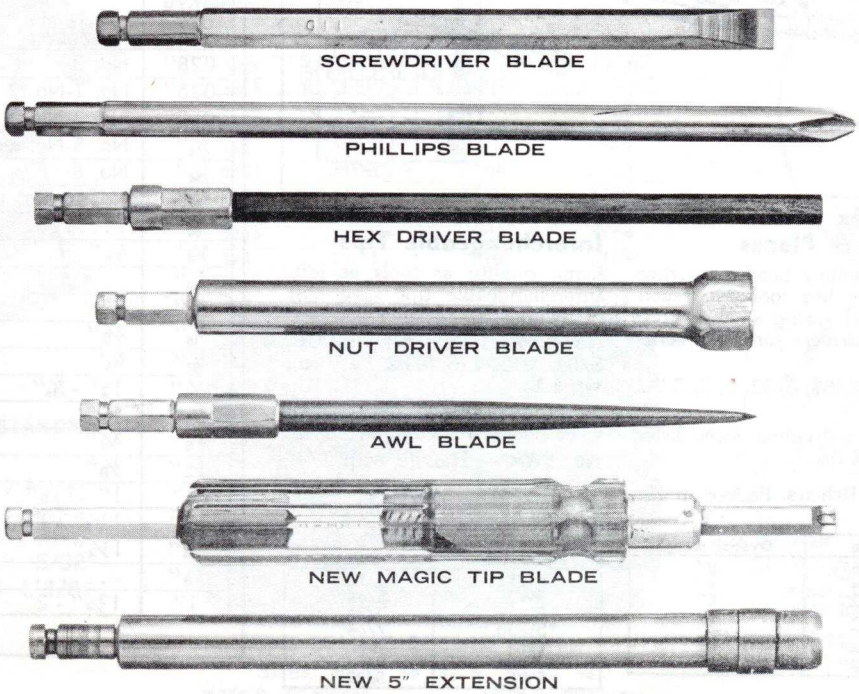
8 PIECE HEX DRIVER KIT

This kit contains: one interchangeable handle, one 5" extension and 6 hex driver blades: 1/16x4⅝, 5/64x4⅝, 3/32x4⅝, ⅛x4⅝, 5/32x5⅜, 3/16x5⅜. **Stock No. K12E.**

HEX BLADES

Hunter Hex Blades made of quality steel, expertly heat treated, hardened. Package of 10, wt. .7 lb.

Stock No.	Blades, Inches
11LB	.050 x 4⅝
11M	1/16 x 4⅝
11N	5/64 x 4⅝
11P	3/32 x 4⅝
11PA	7/64 x 4⅝
11Q	1/8 x 4⅝
11QA	9/64 x 4⅝
11R	5/32 x 5⅜
11S	3/16 x 5⅜
11SB	1/4 x 4⅝
11SC	7/32 x 4⅝
11M1	1/16 x 8⅝
11N1	5/64 x 8⅝
11P1	3/32 x 8⅝
11Q1	1/8 x 8⅝
11R1	5/32 x 8⅛
11S1	3/16 x 8⅛



SCREWDRIVER BLADES

Stock No.	Blade Size, Inches
11AC	1/8 x 6½
11B	3/16 x 4
11C	3/16 x 6
11D	1/4 x 4
11E	1/4 x 6
Phillips	
11F	#1 x 4
11G	#2 x 5½

NUT DRIVERS

Stock No.	Blade, Inches
11H	3/16 x 4
11I	1/4 x 4
11J	5/16 x 4
11K	11/32 x 4
11L	3/8 x 4

MISCELLANEOUS BLADES

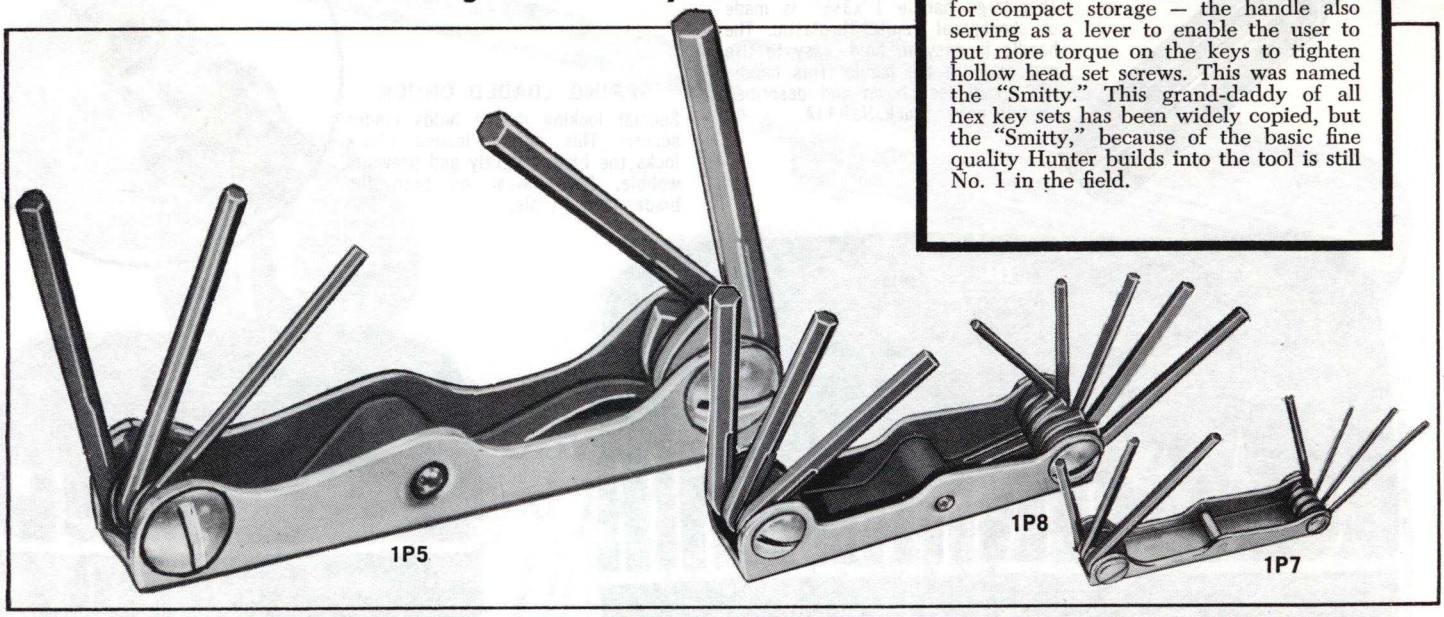
Stock No.	Disc.
11A1	5" Extension
11B1	Magic Tip
11Z	4" Awl

The "SMITTY" by Hunter

America's Leading Socket Key Set

The "Smitty" is the Grand-Daddy of All Hex Key Sets

Nearly twenty years ago Hunter developed the original hex key set where the individual keys folded into the handle for compact storage – the handle also serving as a lever to enable the user to put more torque on the keys to tighten hollow head set screws. This was named the "Smitty." This grand-daddy of all hex key sets has been widely copied, but the "Smitty," because of the basic fine quality Hunter builds into the tool is still No. 1 in the field.



The "Smitty" meets Federal Spec. No. GGG-W-00652a

Convenient, easy to use, hard to lose! Gives the right key size when you want it. Blade made from 8650 cold drawn alloy steel, heat treated and hardened for long wear especially on the tips. Blades are strong, tough, won't bend or break under leverage applied by handle. Handle comfortable in hand. "Smittys" packed 10 to box. Weight of 10: **No. 1P6,** 1.2 lbs.; **1P5,** 3 lbs.; **1P3,** 7.6 lbs.; **1P4,** 7.5 lbs.; **1P2,** 8 lbs.

No. 1P6 SMALL MODEL 3" Handle 2" Blades		No. 1P5 MEDIUM MODEL 4" Handle 2" Blades		No. 1P3 LARGE MODEL 6" Handle 3" Blades		No. 1P4 LARGE MODEL 6" Handle 5" Blades		No. 1P2 LARGE MODEL 6" Handle 3" Blades	
Replacement blades for "Smitty" hex key sets listed above									
Stock No.	**Size**	**Stock No.**	**Size**	**Stock No.**	**Size**	**Stock No.**	**Size**	**Stock No.**	**Size**
1P61	.050	1P51	3/32	1P31	5/32	1P41	3/32	1P21	7/32
1P62	1/16	1P52	1/8	1P32	3/16	1P42	1/8	1P22	1/4
1P63	5/64	1P53	5/32	1P33	7/32	1P43	5/32	1P23	5/16
1P64	3/32	1P54	3/16	1P33	1/4	1P44	3/16	1P24	3/8
1P65	1/8	1P55	7/32	1P35	5/16	1P45	7/32		
1P66	5/32					1P46	1/4		

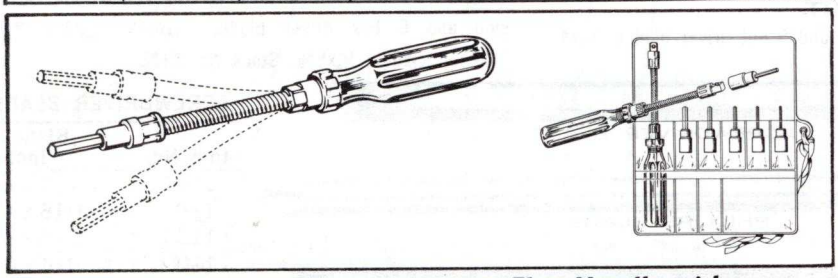
Replacement keys for "Smittys" packed 10 to an envelope. Weight, .3 lb.

For 1960 Series Socket Head Screws

Same quality as "Smittys" at left. Packed in boxes of 10. Weight, **1P7,** 1.4 lbs.; **1P8,** 4.4 lbs.

No. 1P7 SMALL MODEL 3" Handle 2" Blades		No. 1P8 MEDIUM MODEL 4" Handle 3" Blades	
Replacement Blades for Above Models			
Stock No.	**Size**	**Stock No.**	**Size**
1P71	.050	1P81	3/32
1P72	1/16	1P82	7/64
1P73	5/64	1P83	1/8
1P74	3/32	1P84	9/64
1P75	7/64	1P85	5/32
1P76	1/8	1P86	3/16
1P77	9/64	1P87	7/32
		1P88	1/4

Replacement keys packed 10 to envelope.



Flexible Hex Driver Reaches More Places

Ideal tool for use with hollow head set screws in places where no other hex tool will reach. Shaft of strong, laminated spring steel – gives positive drive. *Includes drivers for 1960 series set screws.**

No. K5U–5 sizes. 1/16, 5/64, 3/32, 1/8, 5/32. Pack each, wt. 1 lb.

No. K5U1–7 sizes. All individual sizes listed below. Pack each, wt. 1.2 lbs.

Individual Flexible Hex Drivers. Packed in 10s, wt. 1.2 lbs.

Stock No.	Size	Overall Length
5P	1/16"	8"
5Q	5/64"	8"
5R	3/32"	8"
*5R1	7/64"	8"
5S	1/8"	8"
*5S1	9/64"	8"
5T	5/32"	8"

Flex Handle with Interchangeable Tips

Same quality as tools at left. Interchangeable tips save cost of handles. In plastic roll.

No. K5W–Handle, 5 tips: 1/16, 5/64, 3/32, 1/8, 5/32. Pack ea., wt. 1 lb.

No. K5W1–Handle, 7 tips. All sizes below. Pack ea., wt. 1 lb.

No. 5WA – Handle with 1/4" drive only. Pack 10, wt. 1 lb.

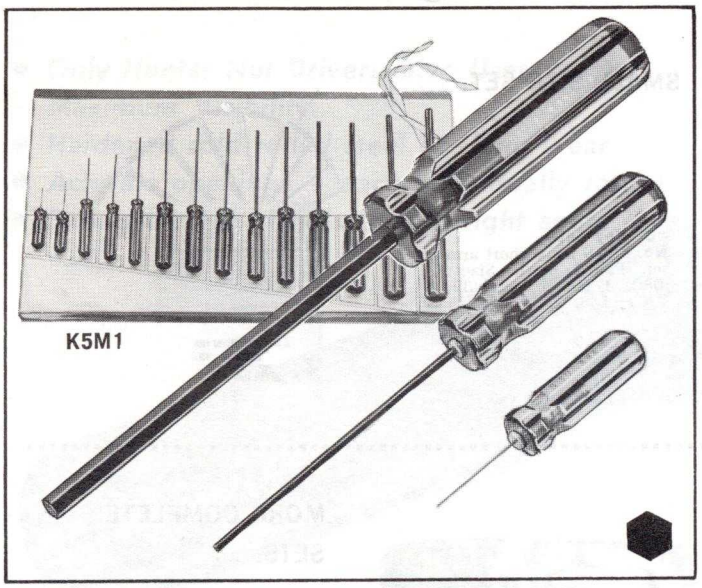
Individual Interchangeable Tips. Packed 10, wt. .2 lb.

Stock No.	Size
5W1	1/16"
5W2	5/64"
5W3	3/32"
*5W3a	7/64"
5W4	1/8"
*5W4a	9/64"
5W5	5/32"

Guide to Correct Key Choice

WIDTH ACROSS FLATS	FITS SET SCREWS	FITS CAP SCREWS 1960 SERIES	FITS CAP SCREWS 1936 SERIES
.028"	No. 0	.....	.....
.035"	No. 1-No. 2	.....	.....
.050"	No. 3-No. 4	No. 0	No. 0-No. 1
1/16"	No. 5-No. 6	No. 1	No. 2
5/64"	No. 8	No. 2-No. 3	No. 3-No. 4
3/32"	No. 10-No. 12	No. 2-No. 5	No. 5-No. 6
7/64"	.....	No. 6	.....
1/8"	1/4"	.....	No. 8
9/64"	.....	No. 8	.....
5/32"	5/16"	No. 10	No. 10
3/16"	3/8"	1/4"	1/4"
7/32"	7/16"	.....	5/16"
1/4"	1/2" - 9/16"	5/16"	.....
5/16"	5/8"	3/8"	3/8"-7/16"
3/8"	3/4"	7/16"-- 1-2"	1/2"-9/16"
1/2"	7/8"	5/8"	5/8"
9/16"	1" - 1 1/8"	.....	3/4"-7/8"
5/8"	1 1/4" - 1 3/8"	3/4"	1"
3/4"	1 1/2"	7/8" - 1"	.....
7/8"	.....	1 1/8"-1 1/4"	1 1/8"-1 1/4"
1"	1 3/4" - 2"	1 3/8"-1 1/2"	1 3/8"-1 1/2"

Hex Drivers



Drive Socket Screws Fast With Screwdriver Action

Easiest type of socket screw drive to use. Saves time and effort on assembly line and production jobs. Tough, durable blades made from 8650 alloy steel, heat treated for toughness and correct hardness. Shockproof Tenite II plastic handles correctly sized to match blades – give tools correct balance. *Hunter assortment includes drivers for 1960 hollow head set screw series.**

No. K5M1—All 14 sizes listed below in plastic roll. Packed each, wt. 2 lbs.
No. K5L1—All 14 sizes listed below in box. Packed each, wt. 2 lbs.
No. K5N—5 sizes: .050, 1/16, 5/64, 3/32, 1/8-in. In plastic roll. Wt. .5 lb.
No. K5N2—7 sizes: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64. Packed in plastic roll. Pack each, weight .6 pound.
No. K5M2—10 sizes: .028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32. Packed in plastic roll. Pack each, weight .8 pound.
No. K5N1—Sub-miniature set. Sizes .028, .035, .050, 1/16, 5/64-in. In plastic roll. Packed each. Weight .5 pound.
No. 5L—10 sizes packed in box. Sizes: .050, 1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16-in. Packed each, weight 2 pounds.

Stock No.	Size	Overall	Wt. of 10	Stock No.	Size	Overall	Wt. of 10
4Y	.028	4"	.5 lb.	5D	1/8	6¾"	.8 lb.
4Z	.035	4"	.5 lb.	*5D1	9/64	7"	.8 lb.
5	.050	4⅝"	.5 lb.	5E	5/32	7⅝"	1.0 lb.
5A	1/16	5⅛"	.5 lb.	5F	3/16	8"	1.5 lb.
5B	5/64	6"	.5 lb.	5G	7/32	8⅜"	1.5 lb.
5C	3/32	6⅜"	.7 lb.	5H	1/4	9"	2.2 lb.
*5C1	7/64	6¾"	.7 lb.	5I	5/16	10"	2.7 lb.

Adjustable Hex-Drivers

6 MOST POPULAR SIZES — .050, 1/16, 5/64, 3/32, 7/64, 1/8

THE HUNTER NEW ADJUSTO HEX-DRIVERS NOW MAKE IT POSSIBLE TO VARY THE LENGTH OF THE BLADE TO MEET THE JOB REQUIREMENT. SIMPLY LOOSEN THE SET SCREW AND SLIDE THE BLADE IN OR OUT OF THE HANDLE TO DESIRED LENGTH. REPLACEMENT BLADES ARE AVAILABLE TO GIVE THESE TOOLS EXTENDED LIFE. THE HANDLES ARE HIGH IMPACT, SHOCKPROOF PLASTIC. THE BLADES 8650 ALLOY STEEL, HEAT TREATED FOR TOUGHNESS.

Stock No.	Description	Std. Pack	Weight
5N10	Adjustable Hex Driver .050	10	.6
5N10A	3½" Hex Blade Only .050	10	.3
5N11	Adjustable Hex Driver 1/16	10	.6
5N11A	3½" Hex Blade Only 1/16	10	.3
5N12	Adjustable Hex Driver 5/64	10	.6
5N12A	3½" Hex Blade Only 5/64	10	.3
5N13	Adjustable Hex Driver 3/32	10	.8
5N13A	3½" Hex Blade Only 3/32	10	.3
5N14	Adjustable Hex Driver 7/64	10	.8
5N14A	3½" Hex Blade Only 7/64	10	.3
5N15	Adjustable Hex Driver 1/8	10	.9
5N15A	3½" Hex Blade Only 1/8	10	.3
K5N16	Hex Driver Kit of All 6 Above Adjustable Sizes	1	.8

3 MASTER "T" WRENCH STANDS TO CHOOSE FROM

3" blades 6" blades 9" blades

Stock Nos. S3TM3 S3TM6 S3TM9

Each stand contains following hex sizes:

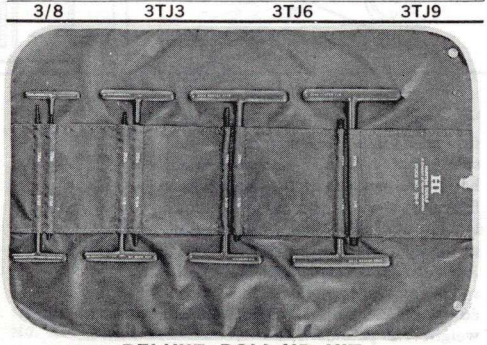
3/32 7/64 1/8 9/64 5/32
3/16 7/32 1/4 5/16 3/8

"T" WRENCH

High Quality Blade made from alloy steel, heat treated and hardened for longer wear. Very strong blades that won't bend, twist, or break under normal conditions.

OPEN STOCK

HEX SIZE	STOCK No. 3" BLADES	STOCK No. 6" BLADES	STOCK No. 9" BLADES
3/32	3TA3	3TA6	3TA9
7/64	3TB3	3TB6	3TB9
1/8	3TC3	3TC6	3TC9
9/64	3TD3	3TD6	3TD9
5/32	3TE3	3TE6	3TE9
3/16	3TF3	3TF6	3TF9
7/32	3TG3	3TG6	3TG9
1/4	3TH3	3TH6	3TH9
5/16	3TI3	3TI6	3TI9
3/8	3TJ3	3TJ6	3TJ9



DELUXE ROLL-UP KIT

Sizes: 3/32 1/64 1/8 9/64 5/32 3/16 7/32 1/4

K3T6-R—6" blades **K3T9-R**—9" blades

"TRADESMAN" "T" HANDLE HEX WRENCH SET

Sizes: 3/32, 1/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4

Handle Design Provides Greater Leverage for Servicemen of All Trades

K3T6—6" blades **K3T9**—9" blades

Hunter "L" Keys and Key Sets

MOST POPULAR. . .

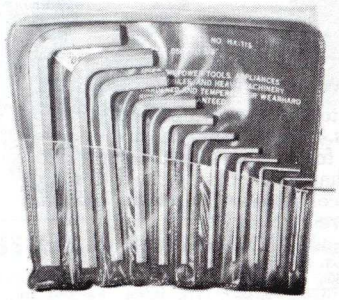
Includes new
7/64 & 9/64 Sizes.

No. 6—9 pc. short arm set. Black finish. Sizes: 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4.

Most popular set—handles 95% of your requirements for hex keys. A must in your tool box.

SMALL SIZE SET. . .

"L" Key Set—
No. 6A—8 piece short arm set. Plated finish. Sizes: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32.



MORE COMPLETE SETS. . .

No. 6B — 13 piece short arm set. Plated finish. Sizes: .050, 1/16, 5/64, 3/32. 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8.

EXTRA LONG SET. . .

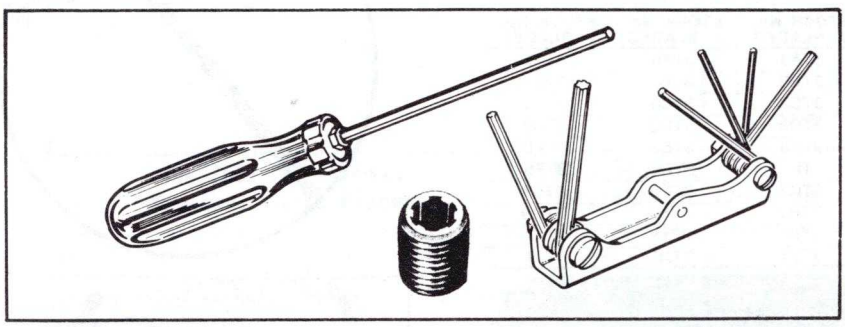
Keys are
8650 Alloy Steel
Heavy Plastic
Kits.

No. 6D — 7 piece extra long set. Black finish. Sizes: 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4.
No. 6D1 — 9 piece extra long kit. Black finish. Sizes: 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4.

This set is designed where extended reach is needed.
Very popular for refrigeration repair work.

No. 6C—20 pc. long and short arm set. Sizes: long arm, 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8; short arm, .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4. Plated.

New! Complete 22-Piece Set
No. 6C1 — 22 piece long and short arm set. Sizes: long arm, 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 7/64, 9/64; short arm, .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4. Plated.



SPLINE WRENCHES

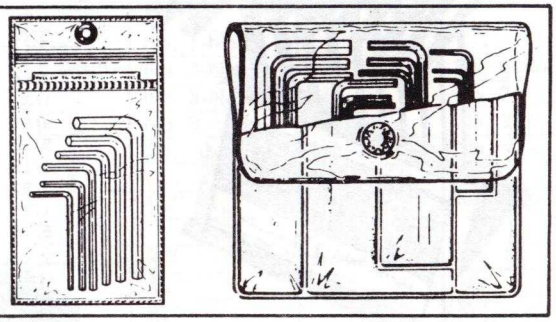
Screwdriver style. Bristol type. Especially designed for assembly line and production work. Plastic handles. Alloy steel. Black finish. Overall length 4¼ inches.

Stock No.	Size	Flutes	Pk. 10 Wt.
8	.048	4	.5 lb.
8A	.060	6	.5 lb.
8B	.076	4	.5 lb.
8C	.072	6	.7 lb.
8D	.096	6	.7 lb.
8E	.111	6	1.0 lb.

SPLINE WRENCH

"Smitty" type for Bristol type spline fasteners. Has the six most wanted spline driver sizes in one convenient handle. Gives the right size at your finger tips when you want it, saves looking for individual tools. Handle gives plenty of leverage. Fit .048, .060, .076, .072, .096 and .111 spline openings. Blades of heat treated alloy steel. Packed in units of 10, weight 1.2 pounds.

No. 7—Smitty Spline Wrench.



SPLINE WRENCHES

"L" pattern. Bristol type. Six sizes packed in a plastic case. Black finish. Sizes: .033-4, .048-4, .060, .076-4, .072, and .096. In units of 10, wt. .5 lb.

No. 9B—Spline key set.

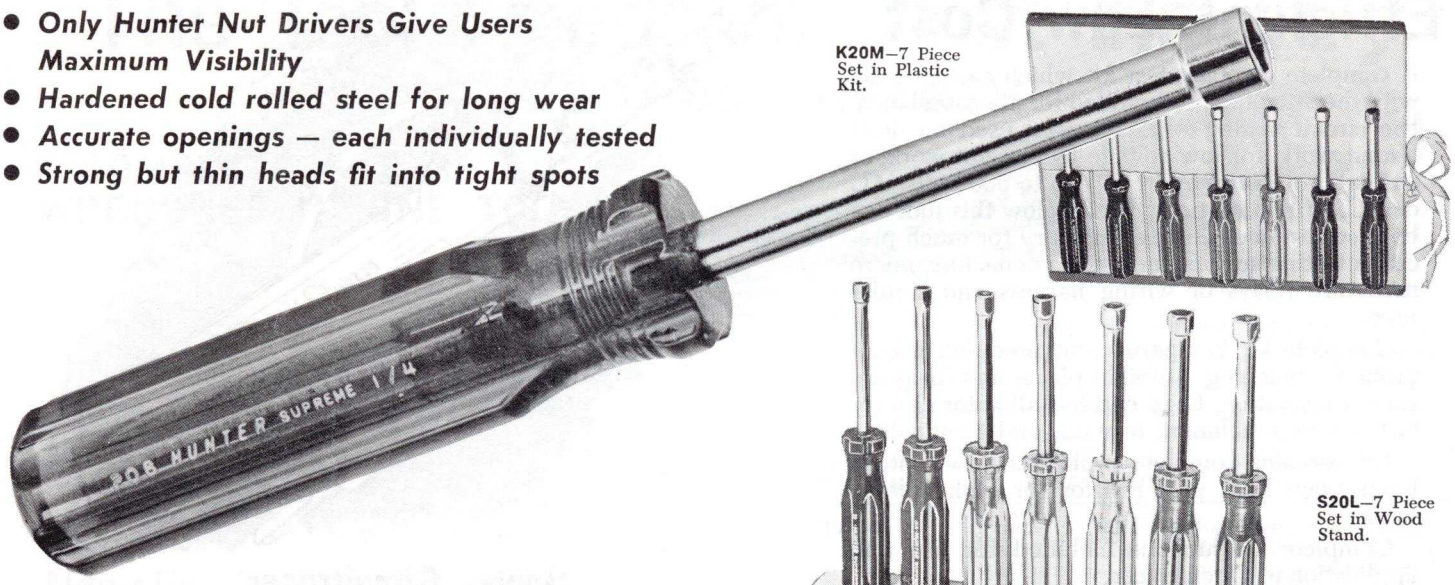
HEX AND SPLINE SET

Six most popular hex and spline sizes packed in one pouch. Hex keys plated finish; sizes: .050, 1/16, 5/64, 3/32, 1/8, and 5/32-inch. Spline keys black finish. Sizes: .033-4, .048-4, .060, .076-4, .072, and .096. In units of 10.

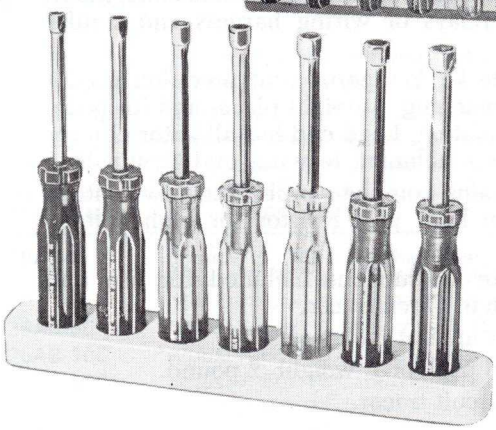
No. 9—Hex and Spline set.

All New Hunter Nut Drivers with Round Heads....

- *Only Hunter Nut Drivers Give Users Maximum Visibility*
- *Hardened cold rolled steel for long wear*
- *Accurate openings — each individually tested*
- *Strong but thin heads fit into tight spots*



K20M—7 Piece Set in Plastic Kit.



S20L—7 Piece Set in Wood Stand.

Hunter Nut Drivers Are The Best

Best because of the fine quality cold rolled seamless tubing that goes into the head and shank. One piece construction—far stronger than welded type. Heads formed hex inside and round outside. Inside hex diameters accurately sized and each driver individually checked for accuracy. All heads correctly heat treated to correct Rockwell hardness. Heads are ground flush to fit tight to working surfaces. Heads and shank finished with attractive chrome finish. Individual Sizes listed below:

Stock No.	Hexagon Size	Handle Dia. and Length	Color	Over-all	Fits Screws and Nuts	Pkg. of 10 Weight
19W	5/32"	1"x3¾"	Maroon	6¾"	0 & 1	1.6 lbs.
20	3/16"	1"x3¾"	Black	6¾"	2 & 3	1.7 lbs.
20A	7/32"	1"x3¾"	Brown	6¾"	2 & 3	1.7 lbs.
20B	1/4"	1"x3¾"	Red	6¾"	4	1.7 lbs.
20C	9/32"	1"x3¾"	Orange	6¾"	4	1.7 lbs.
20D	5/16"	1"x3¾"	Amber	6¾"	5 & 6	1.7 lbs.
20E	11/32"	1"x3¾"	Green	6¾"	8	1.7 lbs.
20F	3/8"	1"x3¾"	Blue	6¾"	10	2.0 lbs.
20G	7/16"	1⅛"x4"	Red	7"	12 & ¼"	3.0 lbs.
20H	1/2"	1⅛"x4"	Red	7"	5/16"	3.2 lbs.
20H1	9/16"	1¼"x4¼"	Red	7¼"	⅜"	3.4 lbs.
20I	1/4"	1"x2"	Red	3"	4	1.0 lbs.
20J	5/16"	1"x2"	Amber	3"	5 & 6	1.0 lbs.
20K	3/8"	1"x2"	Blue	3"	10	1.2 lbs.

Color Coded Handles — Identify Size Quick

- *Color coding lets you choose the correct driver size quickly without hunting or fumbling. Saves time, temper.*
- *15 sizes available — cover a wide range of applications.*
- *Used by Mechanics, assemblers, repairmen in all industries.*
- *Tenite II plastic handles — shockproof, non-burning.*

Hunter Nut Drivers have all the quality features it is possible to build into a tool of this type — check the features shown and you will see for yourself why we say: "In Nut Drivers Hunter is the Best."

Available in two sets, each containing the most popular sizes. Choice of roll-type plastic case or wood stand for bench top use. Sizes in both sets are: 3/16, 7/32, 1/4, 9/32, 5/16, 11/32 and 3/8-inch.

No. K20M—Seven most popular Nut Drivers in plastic roll. Sizes as above. Standard pack of 1. Weight 1.5 pounds.

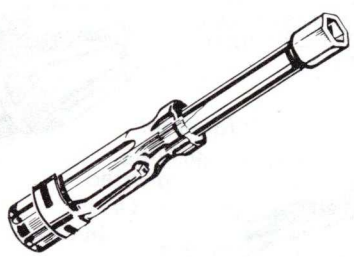
No. S20L—Seven most popular Nut Drivers in wood stand. Sizes as above. Standard pack of 1. Weight 1.5 pounds.

POCKET DRIVERS WITH AUXILIARY HANDLE

No. K22GA — 8 piece set. Handle above with all 7 pocket drivers at right in Plastic Kit. No pocket clips. Standard pack 1.

Auxiliary Handle

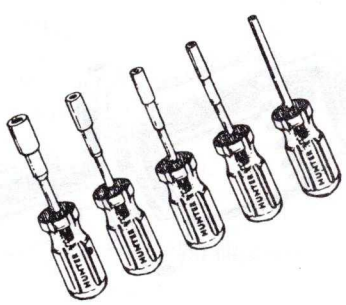
No. 22G1 — Black plastic handle, 3¾x1" size, with broached opening to take handles of all 7 Pocket Drivers at right. Gives greater grip. Packed 10.



POCKET NUT DRIVERS WITH POCKET CLIP

Same quality as our larger drivers but only 3½-inches overall. Ideal for adjustment work. Seven color coded sizes. Packed in units of 10, weight .1 pound.

No. 22C—1/8-in. opening. Orange handle.
No. 22B—5/32-in. opening. Maroon handle.
No. 22A—3/16-in. opening. Black handle.
No. 22—1/4-in. opening. Red handle.
No. 21Y—5/16-in. opening. Yellow handle.
No. 21X—11/32-in. opening. Green handle
No. 21W—3/8-in. opening. Blue handle.



Sub-Miniature Nut Drivers

Tiny drivers for fine work. Red plastic handles.

No. 24H—Set of all 5 drivers listed below. Packed 1.
No. 24C—5/64-inch opening.
No. 24D—3/32-inch opening.
No. 24E—7/64-inch opening.
No. 24F—1/8-inch opening.
No. 24G—5/32-inch opening.
Individual sizes packed 10.

Hunter Electric Circuit Testers Top Quality, Efficient, Low Cost

A complete compact test kit which can be used with the attachments included for almost all electric circuit testing work. Can be used on dead circuit work, for low voltage live circuit work, or on high voltage live circuits up to 500 volts, AC or DC. With variations listed below this tool can be used in the electronics industry for much precision testing such as multi-pin connectors, micro miniature relays or wiring harness and similar uses.

Complete kit has permanent precision needle probe for reaching into tight places and for penetrating insulation. Lead end has alligator clip for fast secure attachment to wires and terminals.

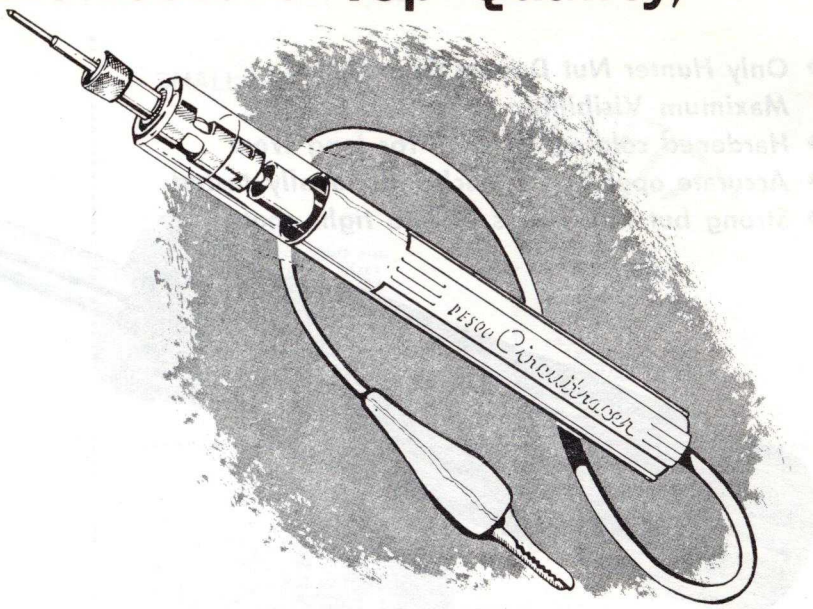
Kit contains complete probe set, low voltage lamp, neon light plus resistor for high voltage work.

Complete instructions included for use and application of Circuitracer.

Batteries are not included.

Standard pack of 1, weight .2 pound.

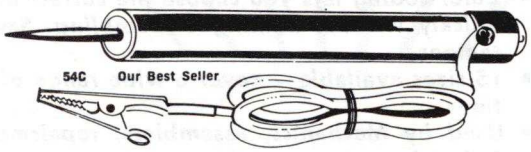
No. 54—Circuit tracer.



Hunter Circuitracer

A Complete Test Kit Fits Into One Hand

Designed for Fast, Efficient Signal Tracing Without Use of Expensive Voltmeters, OHM Meters



OUR BEST SELLER

Self-powered electricians type tester for continuity testing on unpowered circuits. For checking fuses, relays, etc. Uses standard pen light batteries. Alligator clip on lead wire, point on probe for reaching into tight spots, penetrating insulation. Ideal auto, hobby, home unit. Standard pack 1, weight .5 pound.

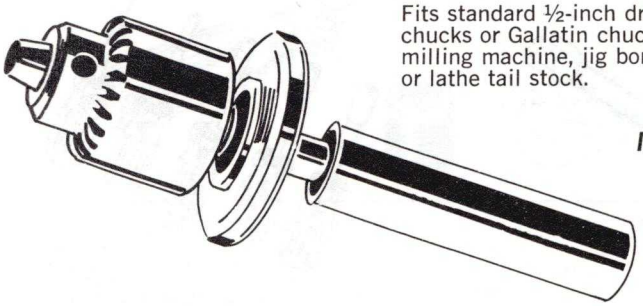
No. 54C—Batteries included.

POCKET TESTER

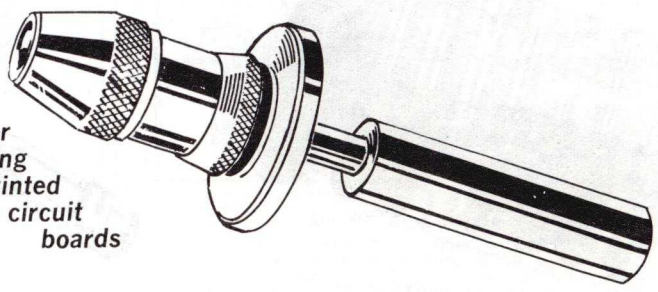
A reliable tester designed for industrial maintenance use and for home trouble shooting. Ideal for testing wall plugs and lamp sockets. Contains neon light signal. Probes are ½" flat nose type. Leads 6" long. AC or DC 90 to 500 volt range. Standard pack 10, weight 1.2 pounds.

No. 54B—Pocket tester.

PRECISION SMALL HOLE DRILLERS
FOR DELICATE WORK



Fits standard ½-inch drill chucks or Gallatin chuck on milling machine, jig borer or lathe tail stock.



Ideal for drilling printed circuit boards

SMALL HOLE DRILL — JACOBS CHUCK

Jacobs key chucks are famous throughout the world for their fine quality. Combined with the Hunter small hole driller they give an accuracy of .002 of an inch. This combination will solve many of your drilling problems.

No. 500A—Driller with Jacobs chuck. .005-5/64" cap.

SMALL HOLE DRILL — ALBRECHT CHUCK

There is no finer piece of drill holding equipment than Albrecht Chucks. When combined with the Hunter small hole driller it makes a superior drilling combination.

No. 500B—Driller with Albrecht Chuck, 0-1/16".

No. 500C—Driller with Albrecht Chuck, 0-1/8".

Hunter Has a Good Answer to The Tool Needs of Most Industry

ADJUST-A-BOX WRENCH

A COMPLETE SET OF BOX WRENCHES IN ONE TOOL

SIZE	ADJUSTMENT
8″	¼″ TO 1″
10″	⅜″ TO 1⅛″
12″	7/16″ TO 1 7/16″

A welcome addition to any tool kit, the "Adjust-A-Box" combines the strength and compactness of a socket or box-end wrench with the handy versatility of a single adjustable wrench, covering a wide range of sizes that otherwise would require a multiple number of fixed-size wrenches.

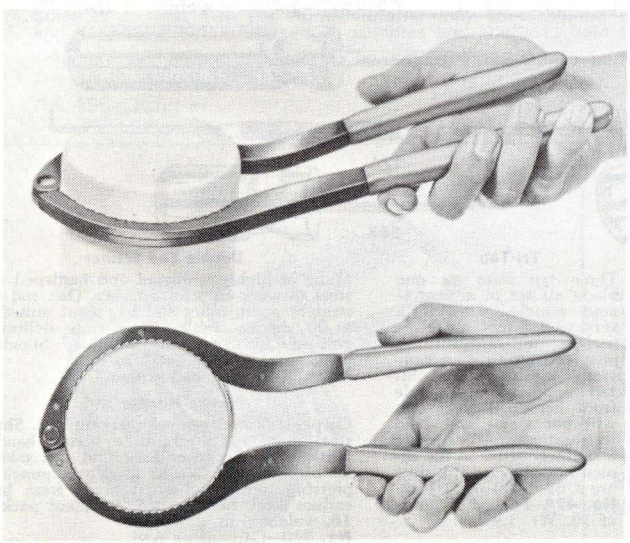
Non-slip four sided jaw grip. Grips burred and damaged nuts. Narrow head gets in tight spots. Fits metric, Whitworth, U.S. sizes.

STOCK No.	DESCRIPTION
26AB-M	Counter or Wall Merchandiser, with 3 ea. 8″, 2 ea. 10″, 2 ea. 12″ Adjust-A-Box, 1 ea. Window Banner, 1 ea. Demonstration Nut and Bolt
26AB-8C	Adjust-A-Box 8″, Individually Carded
26AB-10C	Adjust-A-Box 10″, Individually Carded
26AB-12C	Adjust-A-Box 12″, Individually Carded
26AB-8	Adjust-A-Box 8″, Individually Boxed
26AB-10	Adjust-A-Box 10″, Individually Boxed
26AB-12	Adjust-A-Box 12″, Individually Boxed

Hunter Adjustable End Wrenches

No finer wrenches made. Forged steel correctly heat treated to give long wear. Jaws carefully fitted to open and close without sticking or binding. Choice of plain or cushion grip. Standard package of one.

Cushion Grip No.	Plain Grip No.	Size	Jaw Cap.	Weight Each
26D	26D1	4″	½″	.2 lbs.
26E	26E1	6″	¾″	.5 lbs.
26F	26F1	8″	15/16″	.6 lbs.
26G	26G1	10″	1⅛″	1.0 lbs.
26H	26H1	12″	1 3/16″	1.8 lbs.



No. 28FT-35 OIL FILTER TOOL

Exceeds Federal Spec. GGG-R-00200A

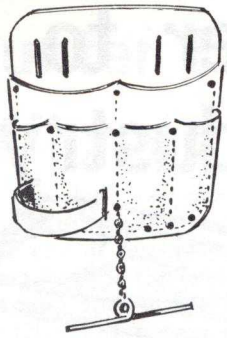
NOTE THESE OUTSTANDING FEATURES:

- One tool fits all screw-on disposable type oil-filters.
- Will not crush or puncture filter walls.
- Off-set handles for sway bar and other obstruction clearance.
- Quick — easy to use — no other tools needed.
- 7½″ handles provide necessary leverage for those tough jobs.
- Tested and approved by professional mechanics.

No. 28FT-20 RADIATOR HOSE TOOL—For removal or installation of radiator hoses.

Other Uses: Removal of new 2″ disposable cartridge, screw-on type fuel filters. Front wheel dust cap puller. Plus many more clamping, holding and turning uses.

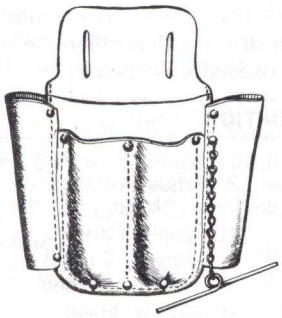
Keep Tools Secure



Stock #64

ELECTRICAL, RADIO-T.V. POUCH

Most widely used. Made of top cowhide. Sewed and riveted construction. 7 pockets plus hammer loop and tape holder.
No. 64—Pack, each, weight .7 lb.

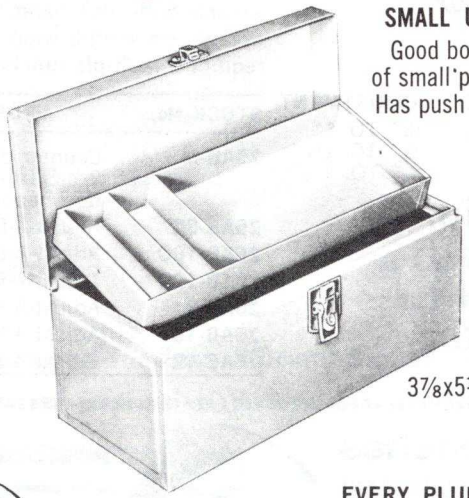


Stock #64K

MULTI-POCKET POUCH

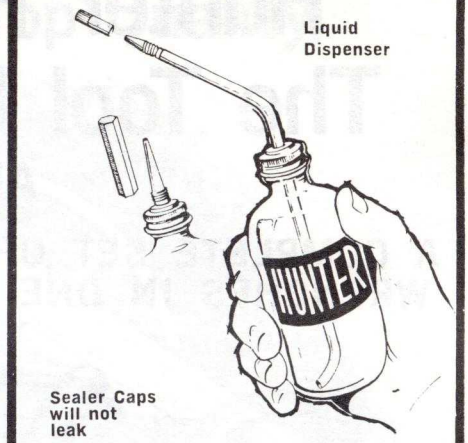
Latest design. Multi-pocket pouch for maintenance men and electricians. Has 1 large, 2 small pockets, plus two bottomless pockets for long tools. Cowhide.
No. 64K—Pack, each, weight .7 lb.

GENERAL AND UTILITY BOX. Has lift out tray with compartments. Edges double turned for extra strength. Hammerloid finish. Packed each. Wt. 3.5 lbs.
No. 65—6x6½x14", 3 compartment tray.



SMALL UTILITY BOX. Good box for storage of small parts or tools. Has push button latch, plus padlock eye. Blue hammerloid finish. Pack, each, wt. 1 lb.

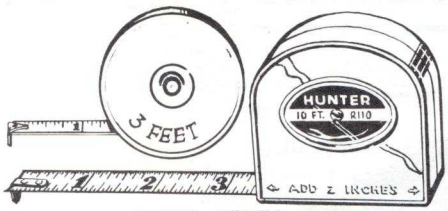
No. 65B—3⅞x5¼x12 inches.



DISPENSES ANY LIQUID

For dispensing oils, chemicals, solvents, cleaners. Has pumping action but no moving parts. Gives perfect control of liquid. For garage, shop, office or plant.

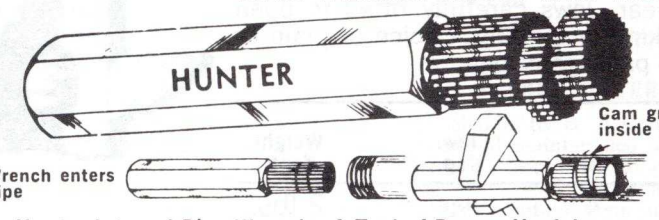
Stock No.	OZ. Cap.	Nozzle Shape	Std. Pkg.	Wt. Lb.
60	4	Straight	10	.7
60A	4	Angle	10	.7
60B	8	Straight	10	.8
60C	8	Angle	10	.8
60D	16	Straight	10	1.0



STEEL TAPES

Pocket Pal. 3-foot, push-pull steel rule. Low price.
No. 53C—Standard pack of 10, wt. 11 oz.
Hunter Push-Pull Steel Rules. In three sizes. Easy to read — extra-large jet black figures show clearly on snow-white background. Die-cast, triple-chrome plated case. Concave forming strengthens blade. Blade will project upward unsupported.
No. 53—6-ft. tape. Packed 10, wt. 2¼ lbs.
No. 53A—8-ft. tape. Packed 10, wt. 2½ lbs.
No. 53B—10-ft. tape. Packed 10, wt. 2¾ lbs.

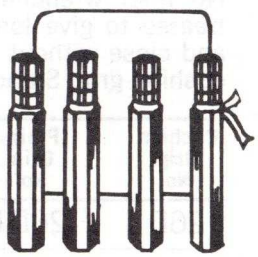
EVERY PLUMBER SHOULD HAVE THESE



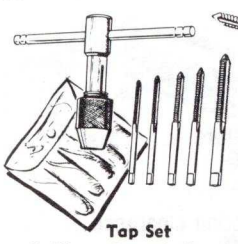
Hunter Internal Pipe Wrench—A Tool of Proven Usefulness

Truly a "get out of trouble" tool for the plumber. Hundreds of plumbers have proved the usefulness of this tool. Tightens and removes nipples, and pipe fittings quickly and safely — without damage to the threads or walls. Easy to use — just insert into pipe and turn — the knurled eccentric cam locks on inside wall, provides positive grip to turn pipe.

Stock No.	For Pipe Size	Std. Pkg.	Weight
29	⅜-in.	10	2.2 lbs.
29A	½-in.	10	3.5 lbs.
29B	¾-in.	10	5.2 lbs.
29C	1-in.	10	7.5 lbs.

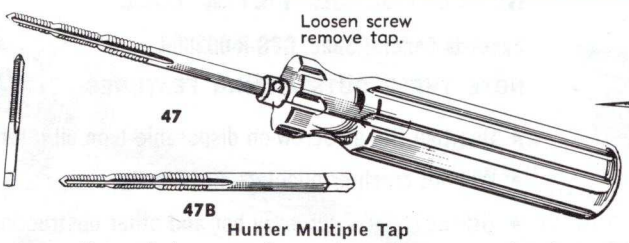


No. K29D—Set of four internal pipe wrenches in kit — all four sizes shown at the left. This is the outfit that every plumber should own. Makes him always able to solve difficult pipe removal problems. Standard pack 1, weight 2 lbs.



Tap Set

6 Piece Set of the five most popular taps plus an interchangeable "T" handle all packed in an attractive plastic case. Tap sizes included in set are 6/32, 8/32, 10/32, 3/16-24, ¼-20 plus steel handle with knurled chuck. Handle holds taps securely.
This is a very popular set with electricians, mechanics, plumbers and repairmen.
No. 47P—Standard pack, 10 kits. Weight 3 lbs.

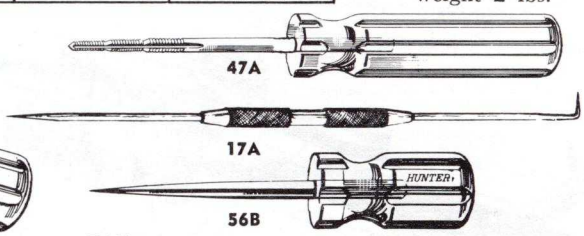


Hunter Multiple Tap

Economical way to clean and cut the common thread sizes. Widely used by electricians, furnace men and repair people. Ideal for use on conventional electrical boxes, fixtures and similar items. Made from tool steel, heat treated and hardened to cut clean and retain sharpness. Standard pack of 10. Weight 1.5 lbs..

Handle Complete with Replaceable Tap
Tap replaceable when worn. Choose combination you need.
No. 47—Handle and tap. Tap sizes: 6/32, 8/32, 10/32.
No. 47E—Handle and tap. Tap sizes: 6/32, 8/32, 10/24.
No. 47F—Handle and tap. Tap sizes: 6/32, 8/32, 12/24.

Replacement Taps to fit above Handle
No. 47B—Tap sizes: 6/32, 8/32, 10/32.



Tri-Tap

Three tap sizes on one blade all set in a permanent handle. This is a very useful tool for electricians, plumbers, furnace men and repair men generally. Plastic handle holds tap firmly. Blade is made from hardened steel that will cut clean and hold its sharpness. All taps are accurately sized in the dimensions shown. Tap sizes are 6/32, 8/32 and 10/32.
No. 47A—Packed in units of 10. Wt. 1.2 lbs.

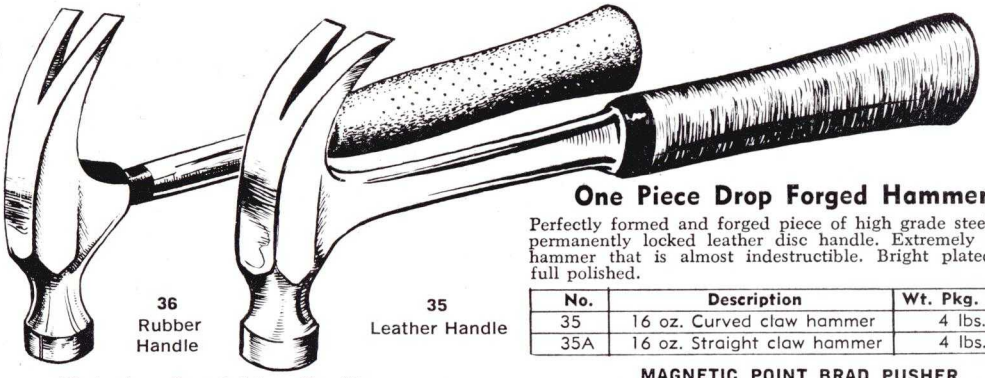
Double End Scriber

Made of highly tempered and hardened tool steel to work on steel surfaces. One end has straight point, other end has point turned to a 90 degree angle, both ends delicately pointed for precision scribing. Standard package of 10, weight 1 lb.
No. 17A—Double end scriber.

Plastic Handle Awl

Carpenter's and general marking awl. Sharp steel point set firmly in a plastic handle. Husky tool, 5 inches long that will take a lot of hard use. Can be used as a punch or piercing tool. Steel point made from high carbon steel, heat treated. Standard pack of 10, weight 1 lb.
No. 56B—Carpenter's Awl.

Quality Tools Help Do Quality Work.



Tubular Steel Handle Hammer

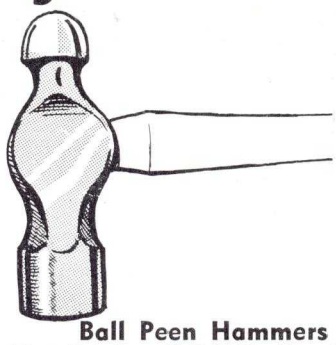
Forged head, specially hardened. Head and handle shaft permanently joined by fusion process. One-piece molded rubber handle absorbs shocks.

No.	Description	Wt. Pkg. of 4
36	16 oz. Curved claw	4 lbs.
36A	16 oz. Straight claw	4 lbs.

One Piece Drop Forged Hammer

Perfectly formed and forged piece of high grade steel with permanently locked leather disc handle. Extremely strong hammer that is almost indestructible. Bright plated and full polished.

No.	Description	Wt. Pkg. of 4
35	16 oz. Curved claw hammer	4 lbs.
35A	16 oz. Straight claw hammer	4 lbs.



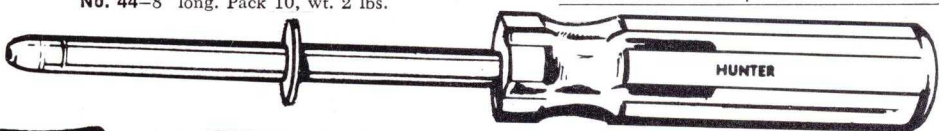
Ball Peen Hammers

Meets Fed. Spec. GGG-H-86a. Forged head, heat treated, red finish. Has hickory handle.

Stock No.	Wt.	Package	Wt. per Box
41Y	2 oz.	10 per box	1.3 lbs.
42	4 oz.	10 per box	2.5 lbs.
42A	8 oz.	10 per box	5.0 lbs.

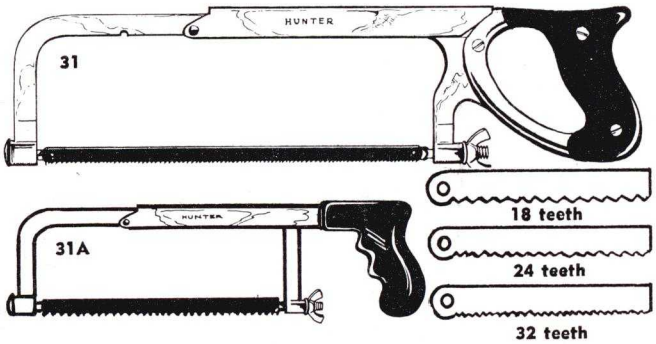
MAGNETIC POINT BRAD PUSHER

Drives, countersinks brads with one push. Drives straight, true – no marring of wood.
No. 44–8" long. Pack 10, wt. 2 lbs.



MAGNETIC STUD FINDER

Much used by electricians, carpenters – also use as magnet. Has alnico 5 permanent magnet. Std. pack 10.
No. 67–Magna tool. Std. pk. wt. .5 lb.



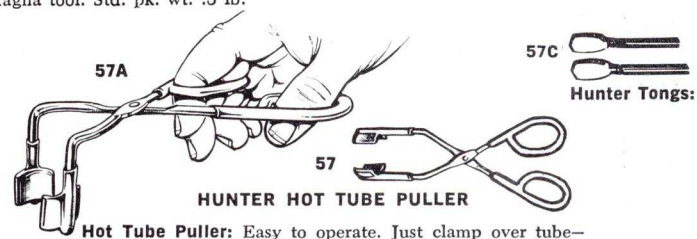
Hunter Hacksaws and Hacksaw Blades

No. 31–Deluxe Hacksaw. For professional, heavy duty use. Reinforced frame, molded plastic handle, with enclosed finger guard. No better tool of its kind made. Standard pack each, wt. 2 lbs.

No. 31A–Popular priced hacksaw meets many hacksaw requirements. Plated steel frame. Pistol grip handle with plastic grip. Pistol grip is liked by many mechanics. Packed each. Weight 1 lb.

HACKSAW BLADES. Made from fine Molybdenum high speed steel imported from Sweden. Best steel known for this service. Gives a strong but flexible blade that gives a long cutting life. Blades packed 10 to a sleeve. Weight 2 lbs.

No. 31B–18 teeth, 12-in. long.
No. 31C–24 teeth, 12-in. long.
No. 31D–32 teeth, 12-in. long.



HUNTER HOT TUBE PULLER

Hot Tube Puller: Easy to operate. Just clamp over tube–pull up and out. Plastic tip, handles protect tubes, hands.
No. 57A–90 degree angle model. Pkg. of 10, wt. 2.2 lbs.
No. 57–Straight model. Pkg. of 10, wt. 2.2 lbs.
No. 57C–Tips and Handles plastic coated. Pkg. of 10. Wt. 2.1 lbs.

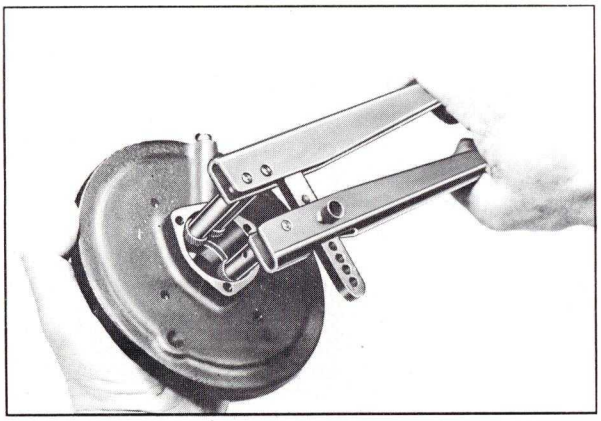
HAND KNURLERS

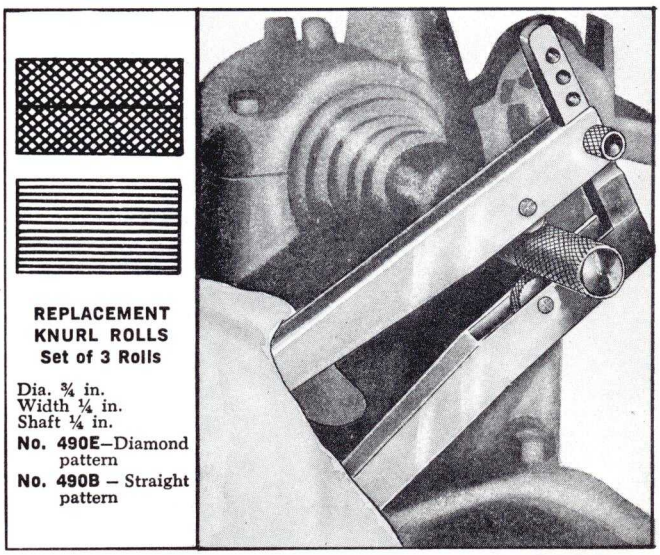
Used like a pair of plier, Hunter Knurler eliminates all the bothersome and time-consuming set-up operations. Use the Knurler with lathe, drill press, or hold work in a vise and rotate knurler around it.

Hunter Knurler raises surfaces on materials from a few thousandths of an inch to 20 to 30/1000", depending upon knurl pattern. This permits worn and undersized armature shafts, axels, spindles, etc. to be enlarged and used again and again. Knurling permits loose-fitting pins to be enlarged and pressed into openings that would otherwise require new and larger pins. Surfaces knurled with the Hunter Knurler may be machined after knurling and deep-cut grooves retained on spindles and shafts to hold lubricants.

Adjusting bar permits handles to be adjusted to produce perfect knurling, any length desired, from 5/32" to 2".

No. 490—Knurler





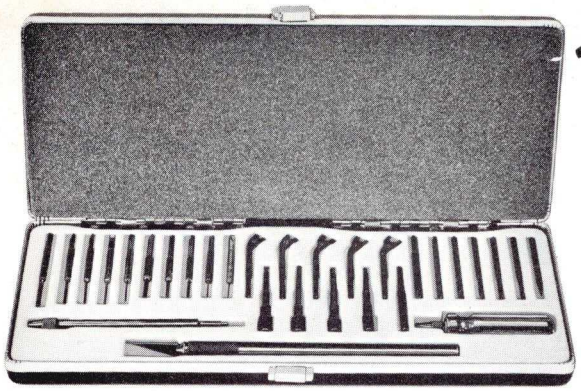
REPLACEMENT KNURL ROLLS
Set of 3 Rolls

Dia. ¾ in.
Width ¼ in.
Shaft ¼ in.
No. 490E–Diamond pattern
No. 490B – Straight pattern

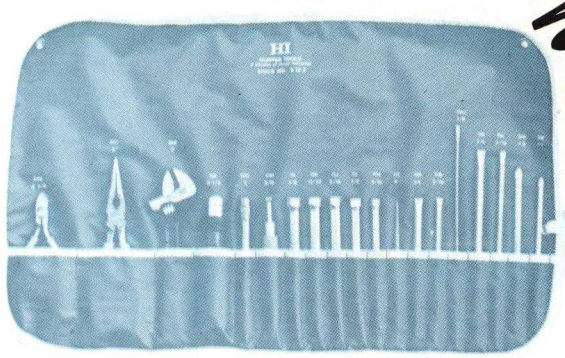
Now save those old worn end plates of generators, alternators and small electric motors. By using the Hunter Knurler I.D., the bearing orifice can be reduced in size so bearings can be pressed in, thus saving sometimes hard to replace end plates. Knurl wheels are extended to go beyond the brush holders on generators. To operate, merely adjust to hole size, insert, squeeze and rotate end plate by hand. In matter of seconds, job is done. Can also be used to reduce size of worn holes for grease seals, etc.

Adjusting bar permits internal range from smaller than 200 Bearing to 3".

No. 491—Knurler I.D.
No. 491A—Extra set Knurl Rollers



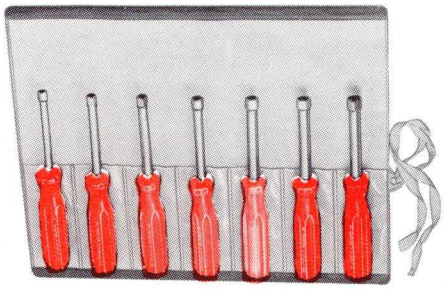
New!



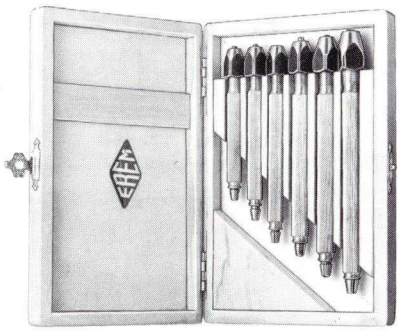
New!

FOR MORE DETAILS SEE PAGE 38

FOR MORE DETAILS SEE PAGE 43

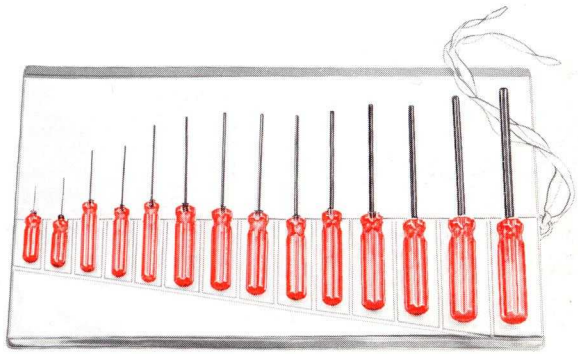


FOR MORE DETAILS SEE PAGE 47



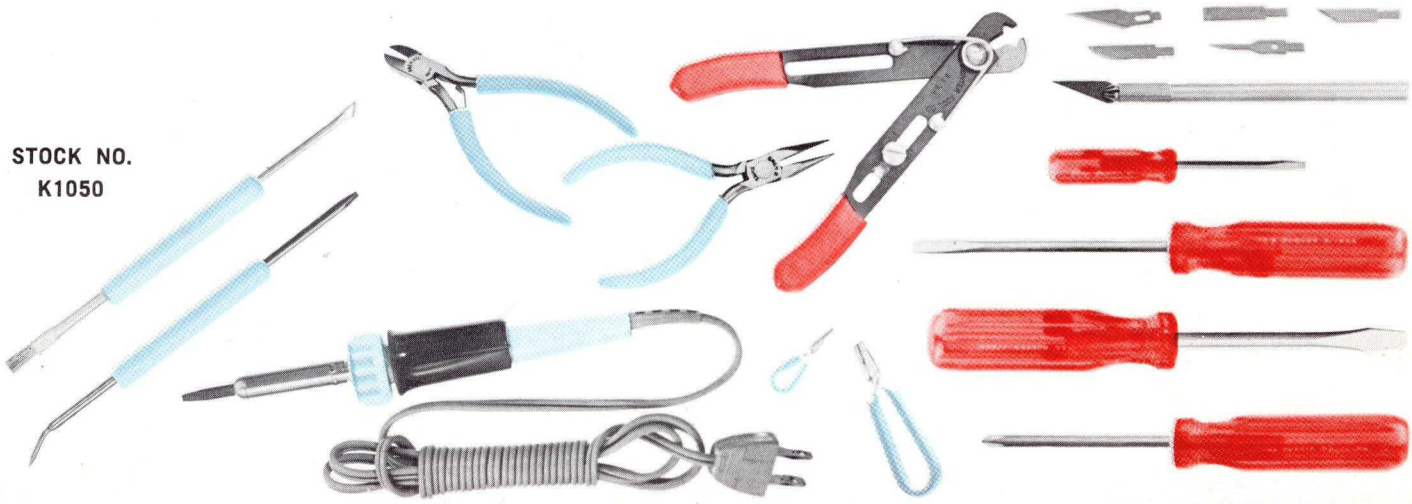
FOR MORE DETAILS SEE PAGE 37

FOR MORE DETAILS SEE PAGE 39



FOR MORE DETAILS SEE PAGE 45

STOCK NO.
K1050



DELUXE BASIC ASSEMBLY KIT . . .

Here is a set of the basic tools needed for Electronic Assembly work. All tools have beautiful mirror polish finishes. Made from the finest materials available. This quality set of tools will help the user turn out quality work.

Consists of:

No. S4350-2	Soldering Iron	No. 51E	Large Heat Sink
No. S25KI	Non Freezing Tip	No. 14	Small Screwdriver
No. A97EL	Precision Cutter	No. 14B	Med. Screwdriver
No. A11	Precision Plier	No. 14G	Large Screwdriver
No. 55BB	Wire Stripper	No. 14N	Phillips Screwdriver
No. 51	Fork-Hook Solder Aid	No. E20	Knife & Blade
No. 51B	Knife-Brush Solder Aid	No. E28	Assorted Blades
No. 51G	Small Heat Sink	No. 65B	Tool Box